

HOW TO BEAT DRUG TESTS (p.28)

HIGH TIMES

APRIL 1987

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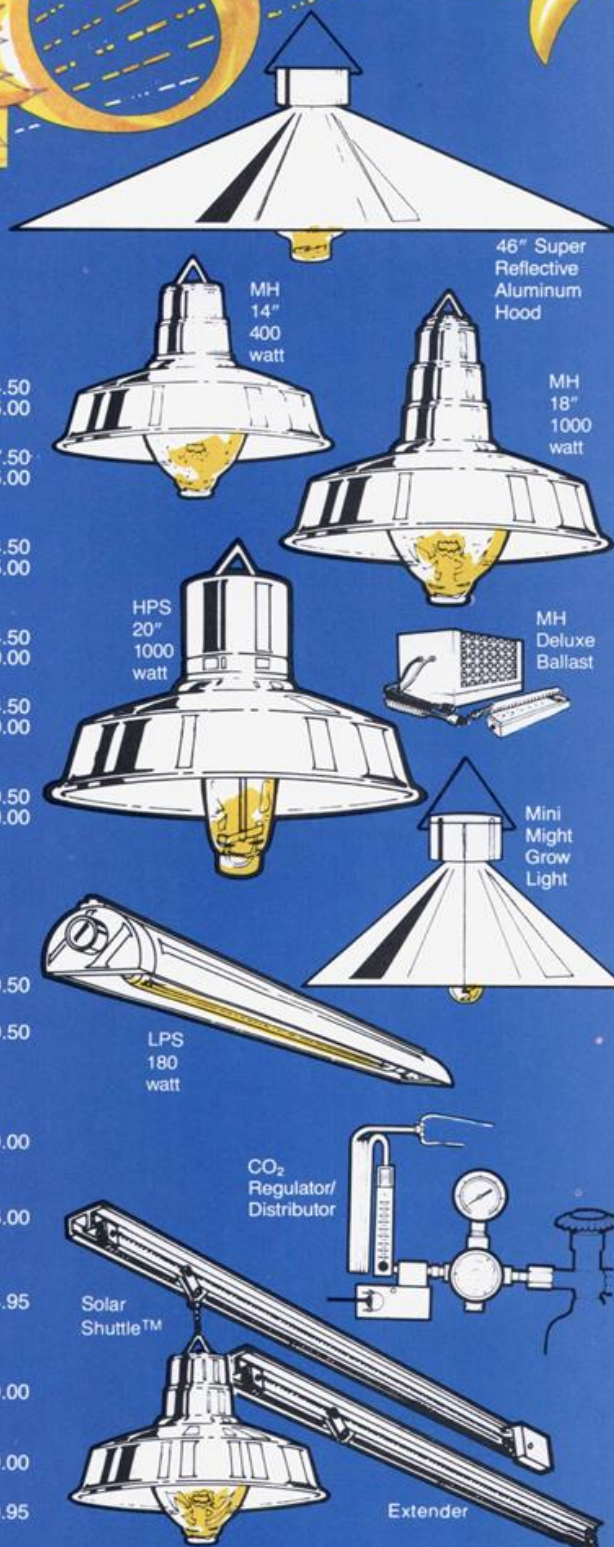
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HIGH ★ TIMES

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EDITOR'S NOTE

● First Lady Nancy Reagan's brilliant solution to substance abuse problems among teenagers—to repeat the phrase, "Just Say No"—received a severe setback from the doctor who actually created the slogan. "Just saying 'no' is not a good technique for controlling drug abuse among teenagers," said Dr. Richard I. Evans, head of a University of Houston medical group that originated the approach. ● According to Dr. Evans the "just say 'no'" strategy was developed in 1976 as part of a program to help adolescents resist cigarette smoking. It was later extended to alcohol and drugs. ● As we all know, it has since become Nancy's favorite "idea," a slogan that flies out of her mouth every time the question of cutbacks in government funding for drug abuse-prevention is asked. "The original program does help teenagers resist peer pressure, but it doesn't affect other, more subtle factors," said Dr. Evans, implying that mere sloganeering was hardly informative or even practically useful. ● Nancy's slogan should be, "Just Say We Don't Know What We're Talking About."

From on high,

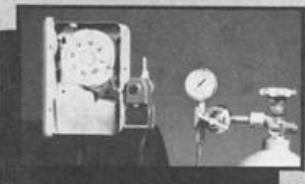
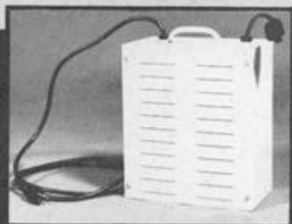


John Howell,
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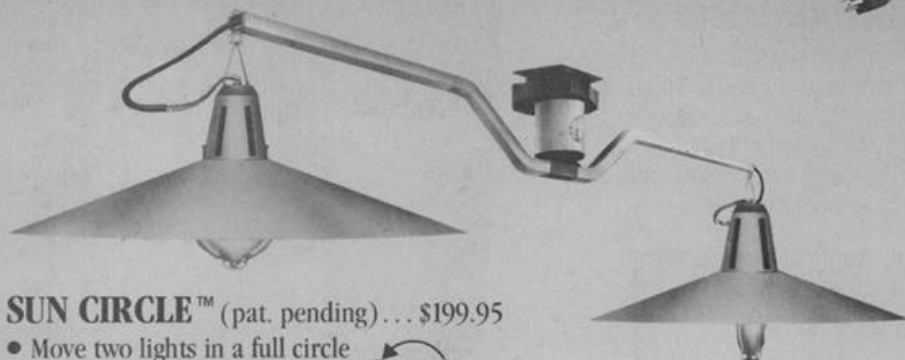
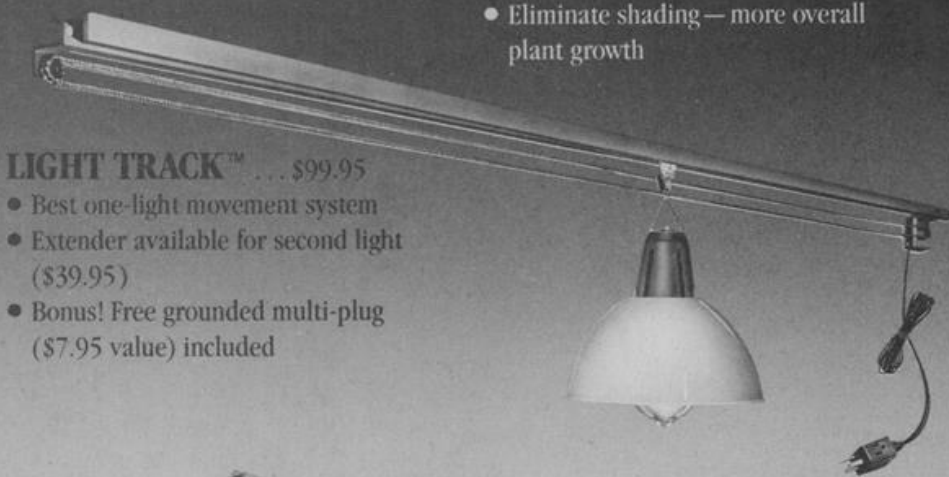
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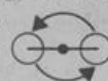
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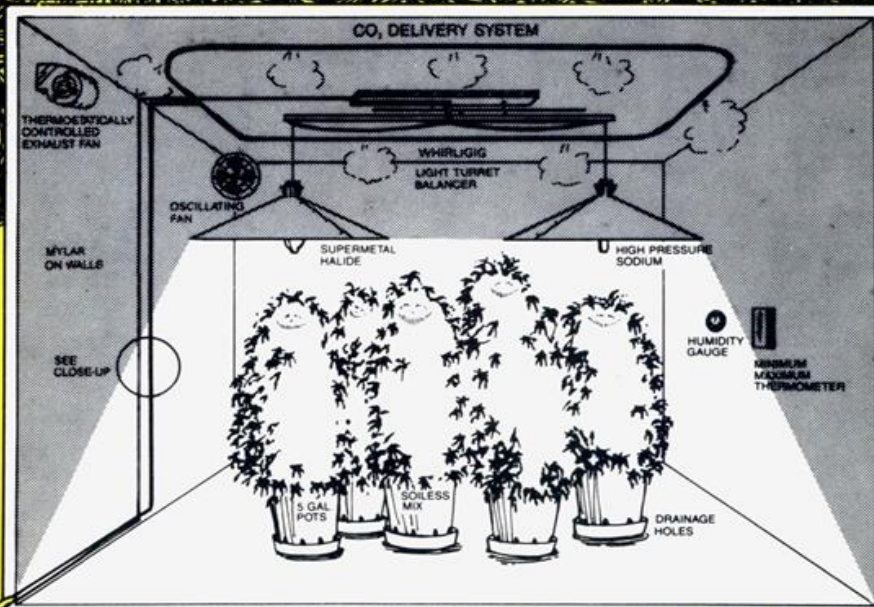
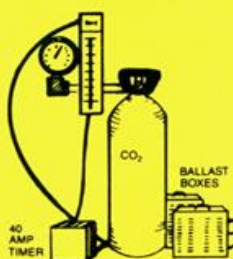
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How to vastly improve your growing environment in four easy lessons.

1 Install the best growing system.

Energy Savers has spent years designing the ultimate hydroponic system (patent pending) — one with the features and qualities of a commercial unit at a size and price to suit you.

Our professional-quality growing system is bigger than others currently available, and it's expandable. Each tray is 6' long and 1' wide, which can hold 1 to 15 plants per tray. The hydroponic system allows you to germinate and propagate your plants right in the trays, it automatically waters and feeds plants on whatever schedule you determine, and it even refills itself automatically with water lost through evaporation.

- 1 unit (Pump tray) . . . \$230.00
- 2 units (Pump & satellite tray) . . . \$365.00
- 4 units (Pump & 3 satellite trays) . . . \$620.00
- 6 units (Pump & 5 satellite trays) . . . \$899.00



SPECIAL OFFER

- ☐ 2 units, 1 deluxe light MS1000 bulb w/46" reflector plus 1 solar shuttle . . . Regularly \$663.50
On Sale \$599.00
- ☐ 4 units, 2 deluxe lights MS1000 bulbs w/46" reflectors plus 2 solar shuttles . . . Regularly \$1217.00
On Sale \$1099.00
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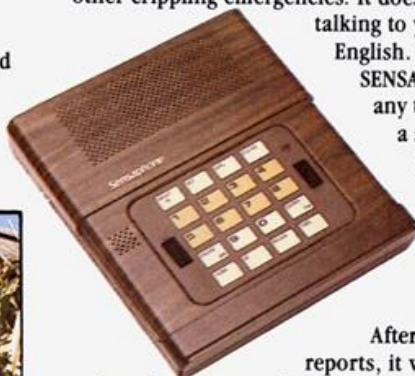
2 Remove the pollutants from the air.

Our Negative Ion Generator by Pulsair uses a back-and-forth emission/collection cycle that makes it extremely effective in removing smoke, dust, pollen and other pollutants from the air. The ions actually kill airborne bacteria and will remove dirt particles as small as 1/1000 micron. Will work in rooms up to 250 sq. ft. . . . \$99.00



3 Monitor your environment.

The SENSAPHONE is an automatic 24 hour alarm system that closely monitors all critical growroom activities . . . and calls up to four user-selected telephone numbers to alert you of any temperature changes (you set the high and low limits), power failures, unusual sounds, or other crippling emergencies. It does this all by talking to you in plain English. You can call SENSAPHONE at any time and get a status report (temperature, power, etc.) via its voice synthesizer.



After it gives its reports, it will open up its microphone to let you listen in to the growroom for 15 seconds for any unusual sounds. With the paging accessory, SENSAPHONE will beep you through a local automated paging service to alert you of any growroom problems.

SENSAPHONE is also a great security system when coupled with the infrared sensor which can detect any movement in an area up to 35' in distance. Our vibration detector and/or conventional magnetic security switches can also be attached for additional security. In the event of an unauthorized intrusion, you will be called and informed that an alert condition exists.

Easy to install, just plug it into your phone line.

SENSAPHONE MONITOR — base unit monitors temperature, power, & noise level . . . \$249.00

You may add any or all of these accessory SENSAPHONE attachments. Just connect to your SENSAPHONE alert stations to warn you of these growroom problems:

Water Detector — detects presence of water on the floor or other area . . . \$29.00

Humidity Sensor — you set high and low humidity limits — SENSAPHONE calls you if they are exceeded . . . \$79.00

Lamp Out Sensor — detects a burned out bulb . . . \$49.00

Tempalarm — add high-low temperature sensors for additional rooms . . . \$49.00

Vibration Detector — detects any vibration due to unauthorized entry or other source . . . \$49.00

Water Level Detector — alerts you when your hydroponic reservoir is low . . . \$29.00

Magnetic Contact Switch — use on doors and windows to detect unauthorized entry . . . \$6.00

Smoke Alarm — triggers SENSAPHONE if there is smoke or fire . . . \$19.00

Infrared Sensor — detects human movement up to 35 feet away . . . \$99.00

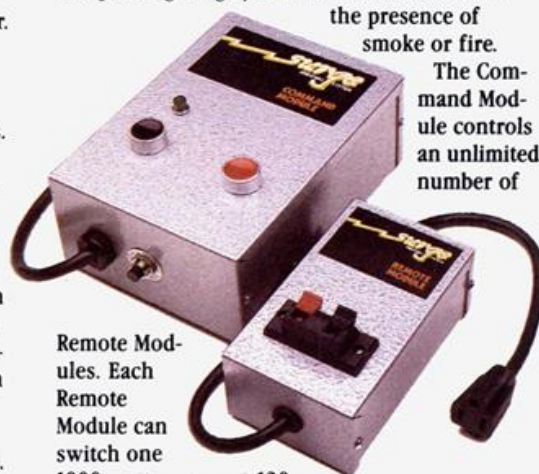
Paging Adaptor — allows your SENSAPHONE to access an automated paging system whereby you are beeped if an alert condition exists . . . \$99.00

4 Protect your lighting system and monitor for smoke and fire.

The Surge Survival System and our new Smoke/Fire Detector Module can protect your lighting system from electrical disturbances and your grow room from smoke and fire damage. Avoid expensive repairs caused by electrical surges, brown-outs, electrical storms and lightning strikes.

By electronically monitoring for high and low voltage problems, the Command Module will shut down the lighting system when voltage reaches dangerous levels. Just long enough for bulbs to cool and voltage to stabilize. Then the line voltage is analyzed and the lighting system turned on if voltage is within safe limits. With the optional Smoke/Fire Detection Module, the complete lighting system will be shut down in the presence of smoke or fire.

The Command Module controls an unlimited number of



Remote Modules. Each Remote Module can switch one 1000 watt system at 120

volts or three 1000 watt systems at 240 volts.

Command Module with 1 Remote Module \$99.00

Additional Remote Modules . . . \$29.00

Smoke/Fire Detector Module . . . \$69.00

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4 x 100 foot roll . . . \$49.00



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*To be the best demands excellence.
Imitators will always be pursuing us.
Like all true leaders, we welcome competition.*

*Experts agree that our grow light
systems and accessories
are the finest products sold today.*

GROW LIGHTS. Our components are the finest quality on the market. All of our lighting systems come with a fully assembled, heavy duty, ventilated ballast box.

METAL HALIDE—(for fast growth)

- MS 1000 watt **FULL SPECTRUM SUPER DELUXE SYSTEM**—With your choice of reflector (45" Super recommended). 125,000 lumen—12,000 hr. Clear bulb (option: coated bulb, no extra charge).
- MS 400 watt **FULL SPECTRUM SUPER DELUXE SYSTEM**—21" Super reflector hood. 40,000 lumen—20,000 hr. bulb.

List Your cost

\$238.00 \$194.50

\$162.00 \$136.95

HIGH PRESSURE SODIUM—(for budding and flowering)

- HPS 1000 **DELUXE SYSTEM**—With your choice of reflector (45" Super recommended). 140,00 lumen—24,000 hr. High Pressure Sodium Bulb.
- HPS 400 watt **DELUXE SYSTEM**—21" Super reflector hood. 50,000 lumen—24,000 hr. High Pressure Sodium Bulb.

\$317.00 \$256.95

\$215.00 \$186.95

ACCESSORIES.

• HYDROPONICS SYSTEMS—

- Single Module \$ 56.95
- 4 Modules \$195.50

- **CO₂ ENRICHMENT SYSTEM**—(Regulator/Distributor) increases growth and flowering. Best working system available. (CO₂ tanks not included) \$145.50

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108. AUGUST '84



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112. DECEMBER '84



114. FEBRUARY '85



115. MARCH '85



117. MAY '85



119. JULY '85



120. AUGUST '85



121. SEPTEMBER '85



122. OCTOBER '85



125. JANUARY '86



132. AUGUST '86



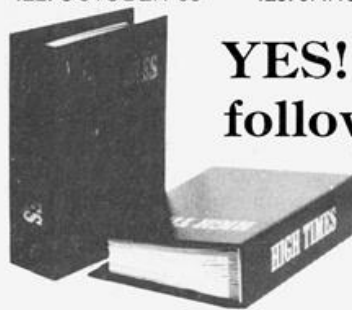
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LETTERS

• Send your letters to HIGH TIMES "Letters,"
211 E. 43rd St., New York, N.Y. 10017. •

OUR BOSS, SMART?

I read in the "Letters" column (September '86) that HIGH TIMES magazine is owned and operated by the DEA. In another article in the same issue, I read that the DEA is trying to spray paraquat and other deadly chemicals on pot plants. What I'd like to know is, why does the DEA operate a magazine that gives tips on growing plants, and then go out and kill them?

—High on Wondering
Coshocton, Ohio

Dean Latimer, Senior Editor in Charge of Sarcasm, responds: "It's called Intelligence, m'boy, with a capital 'I.' The more pot we devious DEA spooks can induce you people to grow, the more money we can euchre out of our pot-maddened Congress for 'marijuana eradication programs.' The truth is, we plunge most of those funds into our pot magazine. Even got the office air conditioner fixed! But the real bottom-line Intelligence reason the DEA owns and operates HIGH TIMES is you can score a hell of a lot more nookie as a famous dope journalist than as a sleazy old narc."

SEED CATALOGUES

Ten months ago, I sent off to Amsterdam for seed catalogs and have yet to receive anything. Are those ads for real or did I get ripped off?

—Carl
Bushwick, Louisiana

Every month we get one or two complaints concerning the catalogs. We suggest you write the company, call them on the phone, or, as the last resort, visit Amsterdam. Compared with the number of orders filled, complaints have been minimal. We have also heard from many satisfied customers.

CLASSY POT

There was mention of "Classic" growing pots in the "Sea of Green" article (October '86). What are they? Also, what is I-AAA?

—Pete
Denver, Colorado

"Classic" pots have ridges inside to discourage root circling. The pots trap roots and encourage secondary tips. The result? Larger, faster-growing plants. "Imperial" pots also prevent root circling, but instead of ridges they have pyramid-shaped steps. I-AAA is a synthetic rooting hormone that induces female plant flowering. Used in the Sea of Green method, it produces buds very quickly.

SAY NO TO NANCY

I've been reading your magazine for ten years now. I never wrote before, but I can't stand it anymore. I just read John Pelham's letter in the January '87 issue. WHEW!! Where do these antidrug motherfuckers come from? MOSCOW?! Nancy Reagan must be a commie plant! Every day people are killing each other and committing real crimes. But the stupid son-of-a-bitchin' government would rather waste millions hassling us law-abiding citizens for growing and smoking something that grows naturally in the wild! What are they going to do next? Outlaw pine needles? We are not hurting anyone. So why don't they just leave us the fuck alone? I love your magazine. The color photography makes me drool. This year's calendar is excellent, as usual!! It feels good to know there are cool people at the top. Thanks for being NORML.

—T.T.
Superior, Wisconsin



**WHOA! WHERE DID THOSE
SHROOMS COME FROM?
CAN I GET SOME MORE?
I CAN? FREE!?
TOO FREAKING MUCH!!
HEEEEEEEEEEEEEEEWACK!!!!!!
WHO IS THAT BAND?
JES-SU-U-S!
AM I IN A TIME WARP?!
PSYCHEDELIA! GO ASSASSINS
YEAH! WILD MEN!!!
KA-KA-KA-KA-KA-KA-KA!
WHAT? FREE WHITE CASTLE
BURGERS AND MARGUERITAS?
WHAT THE FUCK IS
A FRIED PICKLE??
GIVE IT TO ME ANYWAY!!
GIMME ANOTHER ONE!!!
WHEEEEEEEEEEEEE-E-E-E-E!!!!!!
WHO'S THAT GUY WITH THE
SUPER SPLIFF? NEVIL?
DA KING OF KANNABIS???
BLAST OFF!!!!!!!!!!!!!!
HIGH TIMES GIVES THE BEST
PARTIES, MAN.**

- 1 Santa Ra James Wilson
- 2 Cartoonist Flick Ford
- 3 Ad Rep Sherry Lutz
- 4 Artist James Romberger
- 5 Art Director David Allen
- 6 Editor-in-Chief John Howell
- 7 Senior Editor Dean Latimer
- 8 Artist Kiely Jenkins
- 9 Executive Editor Steve Hager
- 10 Nevil
- 11 Pharoah Brian Spaeth

FLASHES



PHOTOTRON[®]

PIONEERS IN THE MODERN ERA OF RESEARCH ON THE MINERAL NUTRITION OF PLANTS...ONE OF THEM WILL CHANGE YOUR LIFE



LUTHER BURBANK lived from 1849 to 1926, and not before or since has there been a greater contributor to plant development. Every domesticated fruit or vegetable or flower has been produced by Mr. Burbank directly or by his methodology.

Mr. Burbank's methodology was extremely simple: (1) First he would GATHER the most extensive seed stock of a particular species from all over the world. (2) Then he would PLANT all of the seeds closely together. From the resulting ten thousand plants, he would (3) SELECT one or two that had the most pronounced characteristic of size or shape or scent or color or whatever he was looking for. (4) From those one or two plants, all of the seeds were PLANTED and from the resulting ten thousand plants, only one or two would be (5) SELECTED that further developed more of the desired characteristic. This process of planting and selection would be repeated as often as necessary from a few generations to hundreds of generations until Mr. Burbank would release the final seed stock to the rest of the world.

Mr. Burbank grafted one hundred different types of apple branches onto a single apple tree and each branch bore a completely different fruit the first year for his personal selection. Inventing this grafting technique, he squeezed thousands of years

of research into a few. The results of his work, from potatoes to apples to EVERY domesticated fruit, vegetable or flower, are what we grow today.

The Burbank Potatoe Quadrupled World Production in One Year. Luther Burbank never needed a lot of space. In his lifetime he conducted over one hundred thousand series of experiments and changed the world on less than three acres of land.



DENNIS ROBERT HOAGLAND, 1888-1949, was the inventor of the "four salt Hoagland solution" from which all HYDROPONICS are based. Although a brilliant botanist, Dr. Hoagland was interested in only one thing, the BIO-MASS (size and weight) of the TOMATO produced hydroponically. Working under the scientific assumptions of the early 1900s, Dr. Hoagland's world assumed four things:

A. Plants had a life cycle leading to death. **WE NOW KNOW** plants have a very different way of achieving a life and death cycle than does the human being. Humans are more genetically structured toward their life and death cycle than plants. Plants allow environmental factors to control not only their life and death cycle but their sex as well: Such things as (1) "PHOTO-PERIOD" (length of time under light and dark), (2) "THERMO-PERIOD" (length of time under temperature variation), and most importantly (3) "NUTRIENT PERIOD" (length of time under a given nutrient configuration).

B. Maximum SIZE and WEIGHT before death of (a) root, (b) shoot, (c) fruit—known as the "root to shoot to fruit ratio"—was the absolute goal. **WE NOW KNOW** the "root to shoot to fruit ratio" is a fallacy. There is no such thing. While keeping

the fruit exactly the same size as normal, both the root (below the soil) and the shoot (above the soil) can be minimized. And by reducing the inter-nodal lengths* (distance between the budding sites from an average of 6 inches to less than 1 inch), the number of the normal sized fruit will increase to thousands per plant. (*Footnote: See inter-nodal length graph in "The Garden" brochure.)

C. Plant "lush feeding" of excess nutrients meant nothing. **WE NOW KNOW** plant "lush feeding" kills the plant. The basis of the hydroponic method is that a fresh nutrient supply be pumped in while the used nutrient supply drains out. This allows the plant to absorb excess amounts of calcium. If allowed, the plant will absorb 10 times what it requires of calcium to the exclusion of other more beneficial nutrients like N, P, K, Mg, Na, Cl, etc. Too much calcium and the plant gets GARDENING OF THE ARTERIES and dies after one seasonal growth period.

D. An aqueous (water) based system without a "buffer" (soil having a cation exchange capacity, C.E.C.) was best. **WE NOW KNOW** an aqueous (water) based nutrient solution surrounding the root system without a "buffer" to protect the roots creates a "water root"—a thick, fleshy root that has layered itself with "fat" to protect itself. Nowhere near the amount of root surface area is produced hydroponically (water based) as when the roots are buffered against excess concentrations by a soil medium.

WE NOW KNOW that the soil mediums used by Dr. Hoagland, such as perlite vermiculite, and sand have no buffering action or "CATION EXCHANGE CAPACITY" (C.E.C.). The CATION EXCHANGE CAPACITY of a soil medium is the ability of that medium to ABSORB AND RELEASE a nutrient solution. The cation exchange capacity of the soil medium protects the root system and allows it to produce thousands more root structures, producing thousands more square inches of root surface area. The greater the root surface area, the more efficient the nutrient uptake for faster growth.

The early 1900s did not have the advanced technology of 1986. Equipment for testing nutrient solutions and plant tissue such as the gas-liquid chromatographic assay (GLC), Thin-Layer chromatographic assay (TLC) and sophisticated atomic absorption equipment were not available.

With the aid of the computer since 1951, the medical profession by comparison has advanced in the last 30 years more than in the preceding 2,000 years. If Dennis Robert Hoagland had access to 1986 technology in 1920, he never would have designed the hydroponic system.



JEFFERY JULIAN DEMARCO, 1951—, is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONIMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponimetrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A specific METHODOLOGY for plant growth and manipulation (instructions). 3. A very specific NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual PHOTOTRON. The exact nutrient calibrations are individually calibrated based upon two soil samples taken from the phototron: one after FORTY-FIVE DAYS of plant growth and one after 90 DAYS of plant growth—ONLY TWO ARE REQUIRED.

Mr. DeMarco's Masters thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1976 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant (not just the SIZE and WEIGHT, but most importantly to study the MOLECULAR and PHARMACOLOGIC properties of the plant). The research developed in pursuit of Mr. DeMarco's

research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas-Liquid Chromatogram (GLC), Thin-Layer Chromatogram (TLC) and Atomic Absorption.

THC-delta 9, the psychoactive molecule produced by the marijuana plant, is so microscopic that 100,000 molecules fit end to end would sit on the head of a pin. *When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?*

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a "root to shoot to fruit" ratio requires a large root and a large shoot to grow large fruit.

Growing Plants Pyraponimetrically (by exactly measuring all 21 environmental elements), requires the plant to produce minimal root, minimal shoot (inter-nodal lengths) and maximize the number of budding sites and size of the bud, flower or fruit.

To develop the (A) PHOTOTRON, (B) the CHEMISTRY and (C) the plant manipulation methodology known as GROWING PLANTS PYRAPONIMETRICALLY, the marijuana plant was used because of its unique properties.

The PHOTOTRON was designed to: (1) GROW 6 PLANTS THREE AND ONE-HALF FEET TALL IN 45 DAYS; (2) Duplicate exactly the quality of the plant material the seed came from; (3) RE-FLOWER AND RE-BUD PLANT MATERIAL EVERY 45 DAYS UP TO 9 TIMES PER YEAR; (4) NEVER KILLING THE PLANTS, YEAR AFTER YEAR; (5) BE REMOVED FROM EVERY DAY. (The system is designed for plant removal, not containment); and (6) To produce 6-8 ounces of plant material every 45 days.

Growing Plants Pyraponimetrically will revolutionize indoor plant production as we know it today. At PYRAPONIC LABORATORIES, over 25 PHOTOTRONS are used for new experiments. To date, PYRAPONIC LABORATORIES have successfully catalogued 17 varieties of flowering plants, 14 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.

A year, or two years from now, PYRAPONIC INDUSTRIES will mass market the PHOTOTRON through the major retailers, on television and radio. I will look forward to working with you. Thank you very much.

1-312-544- B-U-D-S

Jeffery Julian DeMarco
Jeffery Julian DeMarco
President and Founder Pyraponic Industries

OVER 15,000 PHOTOTRONS SOLD WORLDWIDE — INTRODUCING THE

PHOTOTRON II

HAWAII VS THE PHOTOTRON

Hello, my name is Jeffery Demarco, President and Founder of PYRAPONIC INDUSTRIES.

My master's thesis is on the cannabinoid profile of marijuana. I tell you this for historical footnote only.

In pursuit of my own master's thesis, I generated the most extensive popular literature library in the world. Then, I generated the most extensive scientific bibliography in the world. I then went into a laboratory under Federal license at a major university in which I designed a laboratory grade growth chamber called the PHOTOTRON.

If you read all of the popular literature: I did. All of the scientific literature: I did. And look at every apparatus that is in High Times, you will find one common denominator. Every system, UP TILL NOW, has attempted to re-create Hawaii. I suggest that when you finally achieve the re-creation of Hawaii, you can do NO BETTER than Hawaii's results. AND WHAT ARE HAWAII'S RESULTS?

In fact, you will grow the plant 6 to 9 months, 6 to 12 feet tall. In fact, you will average a 6-inch internodal length (distance between budding sites). In fact, have a 10% budding ratio at the tops of the plant. In fact, throw away 90% of the plant material (leaves/shake). And in fact, YOU MUST START ALL OVER AGAIN.

Look. The only thing I'm waiting nine months for is a baby, number one. Number two, I do not want a tree in my house. And number three, I am not going to pay the ELECTRIC BILL TO PRODUCE THE SUN somewhere in my closet. Do not let its pretty looks fool you. Do not let its size (3½ feet tall x 18 inches wide) fool you. Do not let its weight at 17 lbs. fool you.

The PHOTOTRON will draw \$4.00 per month in electricity (average). My system is totally different.

In fact, you will grow 6 plants three and one half feet tall in 45 days, guaranteed. You will maintain a one-inch internodal length, guaranteed. That each plant will produce 1,000 budding sites, FROM TOP TO BOTTOM, guaranteed. And there will be 6 plants per individual PHOTOTRON, guaranteed.

And this is the only system in the world where you can re-flower and re-bud the exact same plants every 45 days, up to nine times per year without killing them off. EVER. Then, you may re-flower and re-bud the exact same plants every 45 days up to nine times per year while you remove from the system every single solitary day. Every day (average 6-8 oz. every 45 days). You remove from the PHOTOTRON every single solitary day, beginning on day 20 from seed germination.

I, personally, guarantee and service back the PHOTOTRON, so do not let its technical nature throw you. You will require THREE PAGES OF INSTRUCTIONS ONLY. Because the system is TOTALLY COMPLETE. You will do three things: 1. Select your seed. 2. Plug the system in. 3. Water it.

Then, if you have any questions at all, you may call me direct. Ask your question. Get your answer. And carry on about your business. You cannot fail with my PHOTOTRON. I do not allow any of my PHOTOTRONS to fall below SHOW-CASE. I have personally guaranteed every PHOTOTRON that has ever been sold. And I have never had one returned. I am not starting now.

"If you do not learn more about plant production than you have ever learned before, I will pay you for the call."

Jeffery Julian De Marco



THE PHOTOTRON		NONE	24	YES	YES	YES	YES	YES	YES	YES	YES
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	LINEAR FEET OF LIGHT										
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	COMPUTER DESIGNED FOR EACH SYSTEM										
	GUARANTEE FEMALE SEX										
	NEVER KILLS THE PLANTS										
	ONE-INCH INTERNODAL LENGTHS = 1,000 BUDDING SITES PER PLANT										
	RE-FLOWER AND RE-BUD SAME PLANTS/EVERY 45 DAYS UP TO 9 TIMES PER YEAR										
CO 2 SERVICE	TOTALLY SELF-SUFFICIENT TO LEAF SATURATION										
	SERVICE HOT LINE FOR QUESTIONS										

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*photograph presented from university conducted research for Masters Thesis entitled "Factors Controlling Resin-Production and Plant Growth," pertaining to any plant.

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PYRAPONIC LABORATORIES: GROWING PLANTS PYRAPONIMETRICALLY

PYRAPONIC LABORATORIES MAINTAINS: (1) The most extensive scientific literature library in the world. (2) The most extensive popular literature in the world. (3) The most extensive library of Data Packages and Soil Analysis selected from over 3,000 PHOTO-TRONS sold worldwide. (4) On premises, over 25 PHOTOTRONS with the capacity of three shelves each so that up to 75 experiments may be ongoing at any one time. Jeffery Julian DeMarco, President and Founder of PYRAPONIC INDUSTRIES and PYRAPONIC LABORATORIES, maintains his PHOTOTRONS for the purpose of killing plants. It is only after experimenting with the parameters of death at PYRAPONIC LABORATORIES that the PHOTOTRON can perform so miraculously around the world. Said to be the number 1 herbicidal maniac, Mr. DeMarco has full-time laboratory technicians on staff and has the most extensive technical consulting network from Universities around the world. PYRAPONIC LABORATORIES maintains the most sophisticated on-premises computerization for data analysis and retrieval in the world. Thousands of experiments have been conducted and thousands more will be ongoing to expand ever further the performance of each PHOTOTRON. As PYRAPONIC LABORATORIES introduces new methods or nutrient formulations, each PHOTOTRON owner is contacted so that every PHOTOTRON is upgraded long after it has been purchased. **THE PHOTOTRON IMPROVES MORE AND MORE THE LONGER YOU OWN IT!**

GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



Young tomato plants in vegetative stage.



Young tomato plants beginning to flower and fruit.



Fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



Typical testing pattern by Pyraponic Laboratories depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



Plants nearing top of Phototron in less than 30 days.



Plants filling the Phototron in less than 45 days.



Tremendous flowering and fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Herbal garden at 65 days of Parsley, Sage, Basil, Oregano, Thyme and Chive.



The hottest jalapa pepper grown anywhere in the world.



Laboratory experiment producing complete root systems on the stem structures of flowering marigolds.



"Normal" marigold flower size produced with reduced root-to-shoot ratio.

GROWTH PATTERNS OF ZINIAS AND SNAPDRAGONS GROWN PYRAPONIMETRICALLY



Day 44: Phototron jammed with flowering zinnias.



Day 52: "Normal" zinia flower size produced with reduced root-to-shoot ratio.



Day 46: Phototron jammed with flowering snapdragons.



Day 58: "Normal" snapdragon flower size produced with reduced root-to-shoot ratio.

Since 1969, enough Americans have been arrested for possession of marijuana to empty the states of:



Oregon

(pop. 2,633,149)



Nevada

(pop. 944,038)



Idaho

(pop. 800,493)

And the cities of:

Fresno, CA (pop. 218,202)

Amarillo, TX (pop. 149,230)

Santa Fe, NM (pop. 48,899)

Spokane, WA (pop. 171,300)

Pueblo, CO (pop. 101,686)

Redding, CA (pop. 41,995)

Salt Lake City, UT (pop. 163,033)

Casper, WY (pop. 51,106)

Flagstaff, AZ (pop. 34,641)

And the towns of:

Piercy, Reynolds, Leggett, Rockport, Cummings, Covelo, Ukiah, Dos Rios, Laytonville, Branscomb, Westport, Longvale, Inglenook, Cleone, Ft. Bragg, Novo, Willits, Casper, Mendocino, Littleriver, Potter Valley, Redwood Valley, Comptche, Albion, Calpella, Navarro, Talmage, Elk, Philo, Manchester, Boonville, Point Arena, Yorkville, Anchor Bay and Gualala, California (pop. 66,783)

In fact, almost 6,000,000 people have been arrested for possession of marijuana.

In 1984 alone, over 419,000 marijuana arrests were reported, one every minute and a half.

The government has pledged to continue. If you think enough is enough, get involved.

Join NORML today by sending \$25 membership dues, or write or call for free information:

NORML, 2001 S Street, NW, Suite 640, Washington D.C. 20009 • (202) 483-5500

- ☐ Yes, I want to do my part to end the suffering caused by America's unjust marijuana laws.
- ☐ Enclosed are my \$25 regular membership dues. Please send me my membership package, a copy of the state and federal marijuana laws and a free NORML button.
- ☐ Enclosed are my \$15 low income, student or military membership dues. I understand that I receive all the benefits of a regular membership.
- ☐ No, I can't join now, but please put this tax-deductible contribution to good use. I'm enclosing:
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NAME: _____
ADDRESS: _____ APT.#: _____
CITY: _____ STATE: _____ ZIP: _____
TELEPHONE: () _____
(All information remains strictly confidential.)

- ☐ Check here if you would like to receive your mail without our logo on the envelope.

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Washington DC, 20009**

National Organization for the Reform of Marijuana Laws

PISS POT IS BACKING UP

In 1981 Dr. Robert DuPont of Maryland said this to THE CANADIAN JOURNAL OF ADDICTION in Toronto, prophesying about the newly-born piss-test racket:

"The technology is driving the issues and attitudes in this area. We're going to have some hard times as we come off this decade-long drug epidemic, and this is one of the ways it is going to happen."

The hard times, so far, have strictly befallen people who have to work for a living. For about a half-dozen ex-government shrinks, chemists, and out-and-out quacks, these times have been lush and lovely. By incessantly bawling "drug epidemic!" and "mandatory urinalysis!" throughout the Reagan Era to the authoritarian-mongering national media, these charlatans have made a bundle for themselves and for their co-contracted confederates in the national commercial-laboratory industry. The hard times went to the poor working stiff whose employers were suckered by those "drug experts" into piss-testing them.

Now that the national media are suddenly on an antiauthoritarian trend, the intelligent people in the medical community who sat back in silent awe while the charlatans flimflammed themselves a mint on piss-testing are vengefully getting even. Witness these comments from Dr. George Lunberg on "chemical McCarthyism" in the editorial of the December 1986 issue of THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION:

"Those of us in the drug-industrial complex are, of course, elated by the symbolic importance of the new billion dollar investment in the new war against drugs.... This is terrific for the laboratory industry and all the attorneys who will argue these cases in court, but should we spend that kind of money in this process...? If our society feels that the problems of drug use are so great as to justify the loss of individual freedoms, mandatory random urine drug screening can be done.... However, the probability of serious and lasting benefit for any large group in society other than the politicians and the bureaucrats produced by such ill-conceived spending is very weak."

When THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION is publishing sentiments like this, the whole piss-test racket is in deep, deep trouble. Every fly-by-night urinalysis lab and industrial "consultant" has to be flying to his or her attorneys, along with all the eminent ex-government "piss prophets" too. Dr. DuPont's "hard times" prophecy of 1981 came true alright, but it's not going to stop coming true. The hard times will go on, but from this point forth the trouble will be visited on the lying sons of bitches who brewed it up in the first place.

By and by, people will start going to prison because of the artificially-induced "drug epidemic" of the mid '80s.

But it won't be us. We told the truth, and JAMA stands foresquare behind it.

—Dean Latimer

"Freedom Chemist" Admits Scam "MELANIN"

Dean Latimer Interviews Himself

LAST AUTUMN, a student editor on a campus newspaper telephoned HIGH TIMES to interview Senior Editor Dean Latimer on the subject of the "melanin theory" in drug-urinalysis legal challenges. When this college reporter tried to use it in an article on "Drug Urinalysis," it was rejected. The fact is, the reporter was trying to run the article in the same month last fall that the President of the United States was publicly pissing in a bottle, and urging all other federal employees and also all civilian employees working under federal government contracts to do likewise!

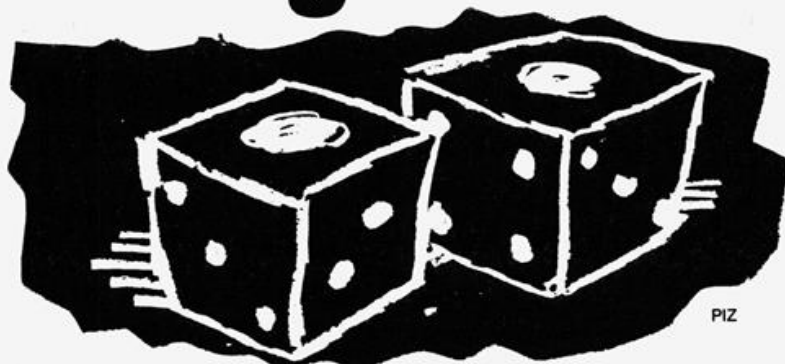
Although we chose not to run this enraged writer's uncensored article in HIGH TIMES for fear of getting a skeptical young journalist blacklisted for life before getting a first job in the Real World, this is such an intriguing topic that we decided to let Latimer interview himself on the subject. After all, he ran no risks of having HIS article torpedoed by the Senior Editor!

Q. The melanin theory basically holds that since melanin and THC cross-react on drug-testing machines, therefore black people have a greater likelihood than white people of pulling marijuana positives. Is that correct?

A. Not exactly. Black people are statistically likelier than whites to show false positives for any sort of drug, but that's because black people get urine-tested a lot more often than whites, because of the

MYTH" EXPOSED

Why Blacks REALLY Fail Drug Tests!



PIZ

basic racism in our society. But I wouldn't blame it on melanin, just on human prejudice.

Q. But black people do have more melanin in their urine, because it's the pig-

ment that determines skin color, correct? The more melanin, the darker the skin.

A. Actually, black people aren't likely to have that significantly

much more melanin in their entire bodies than whites do. You have different sorts of melanin in different parts of your body, not just in epidermal skin. Most of the body's melanin, by

far, is concentrated in the liver. That's why when you look inside someone's innards—like when you clean a chicken, for instance—the liver's by far the darkest of all the body organs. Because livers are chock full of melanin pigment. And that's where *most* of the melanin fragments that are always in urine come from—it's hepatic melanin mostly, and renal melanin also, because kidneys are full of melanin too, and therefore quite dark in color. So with those two organs continuously cycling broken-down melanin fragments down to the bladder, I don't know how much significantly *more* melanin a black person would get, from just epidermal melanin, than white people always have in urine themselves. I mean, nobody's ever checked to see if white people have significantly less urinary melanin than black people, on the average. The research just hasn't been done. But the fact is, if you've got any of maybe a *score* of relatively common liver or kidney disorders, then you're going to be excreting a lot more melanin fragments into your bladder than healthy people, whether you're white or black or piebald. So these tests—

Q. It's not black or white at all! These tests discriminate against people with liver disorders!

A. Or kidney troubles. There's diabetes, porphyria, and

continued over

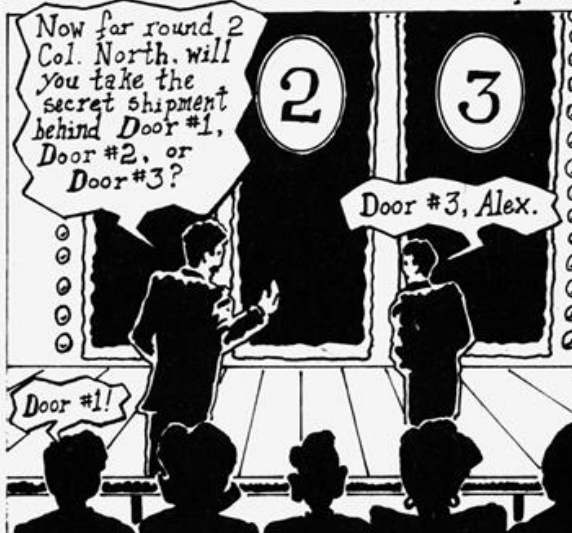
REAGANOPOLIS

MATTHEW FINCH

It was Ollie's favorite game.



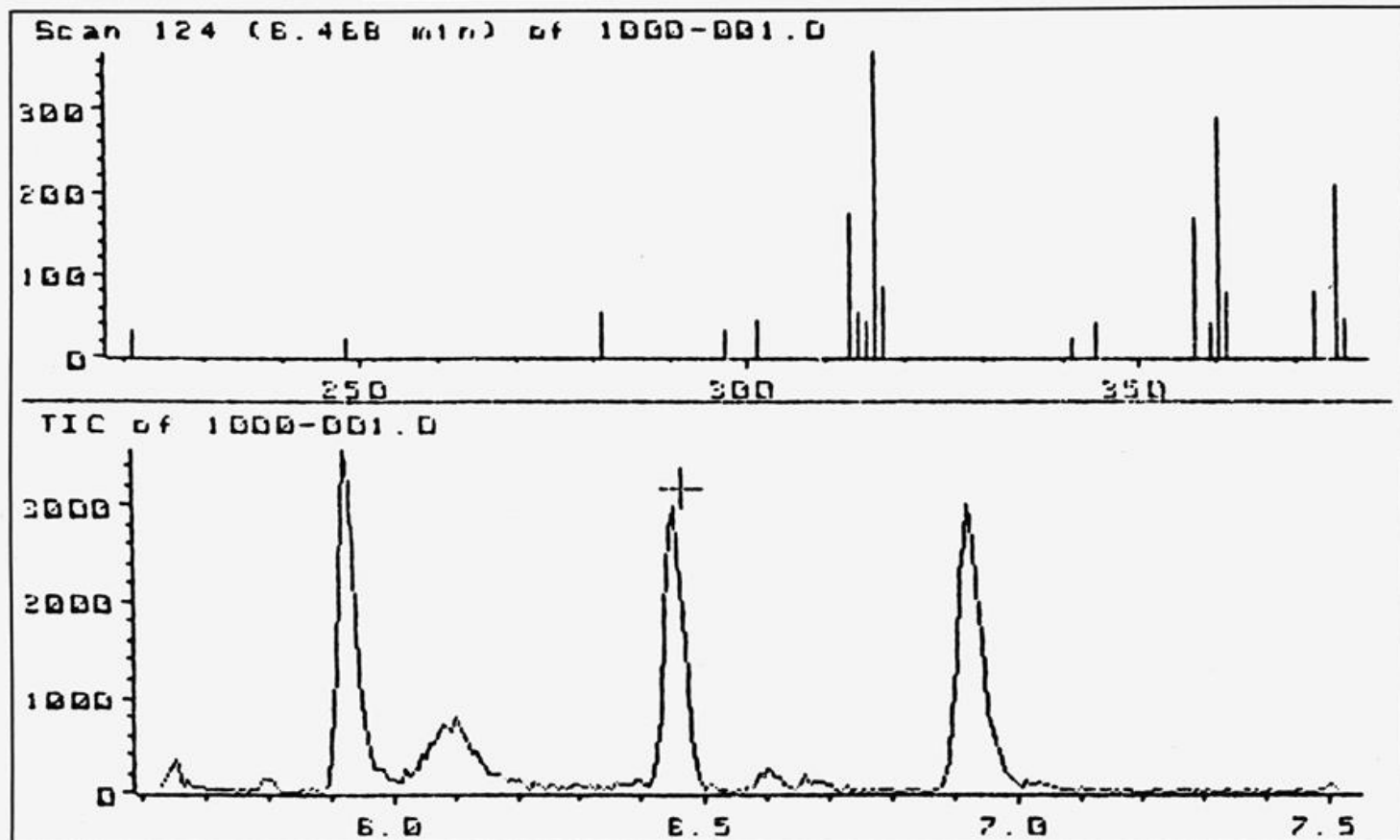
And for a time he looked like the champion.



Here we go Oliver North, for the Grand Prize in Global Jeopardy, your question: At what point do the *amoral shenanigans* of a military elite damage the very nation it is sworn to protect?



He wasn't ready for that one.



● **EIGHT BILLIONTHS of a gram of "THC," or maybe melanin, crosshaired on this GC/MS chromatogram...**

continued from previous page

plenty of just *temporary* borderline disease states you might not even notice, which could result in a hundredfold increase in melanin content in your urine. And then you're in trouble with piss tests, because that stuff *will* show up falsely as "tetra-hydro-cannabinol."

Q. So when a urine sample's *darker* than normal, maybe it should just be rejected for testing automatically.

A. No, because.... Look, people just don't know the properties of their own urine any more. I assume you always had indoor plumbing, more or less continuously, growing up. Right?

Q. Sure.

A La Recherche D'Outhouse

A. Yeah, well, some of us didn't, even here in America. My family didn't have an indoor

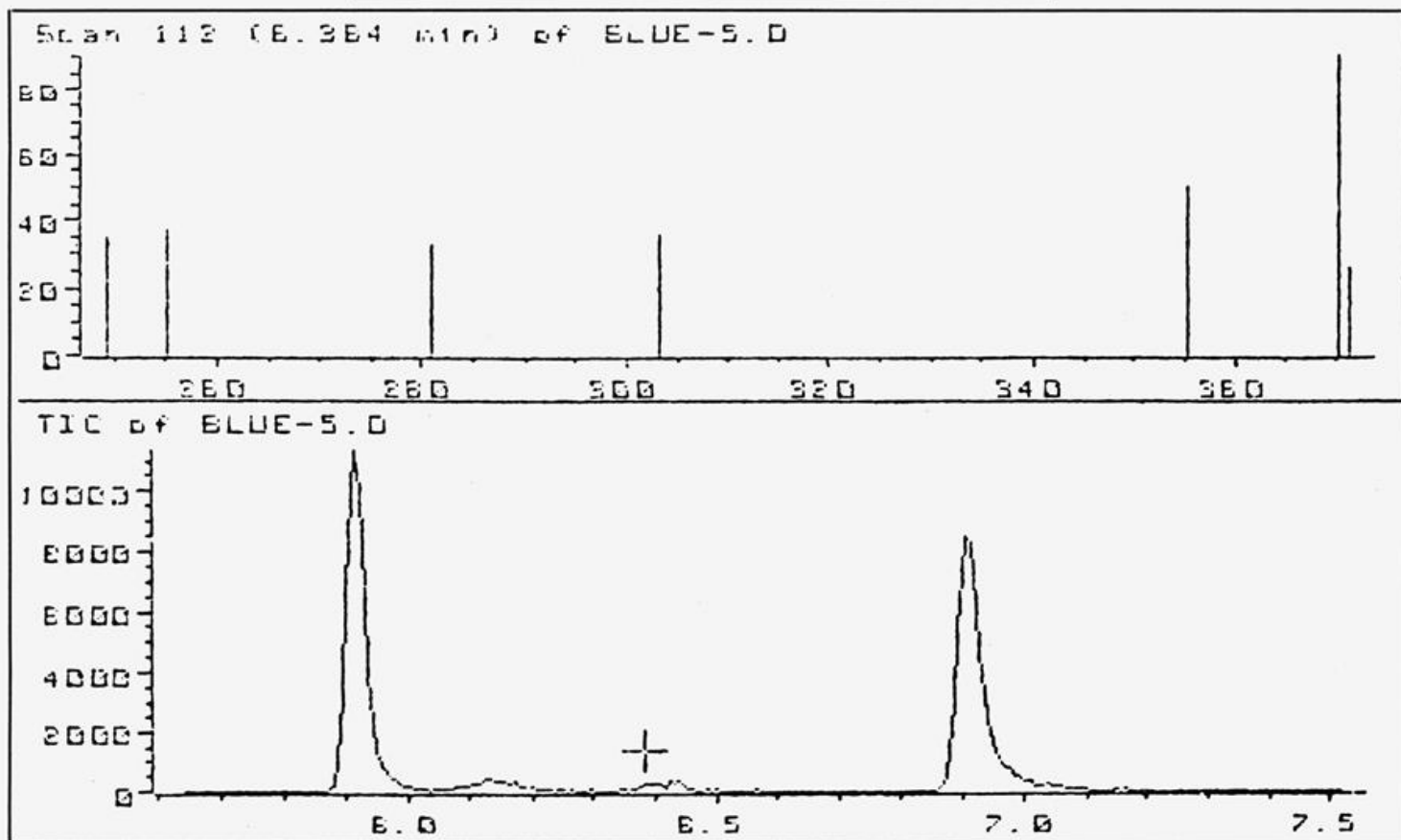
toilet till I was 16. Not that we were *conspicuously* poor or anything, just hardly anybody in our neck of the Adirondacks had indoor toilets 'till the late '50s. In the winter, it's like 20 below at night, and you don't wanna go wade through the 15-foot drifts to the unheated outhouse 'way off by the barn, right? So we had chamber pots and pisspots. One property of pisspots that everybody recognized was that you *didn't* leave them standing longer than say, six hours. Because even in an unheated upstairs bedroom, in a north country winter, where the piss is nearly at freezing temperature, it turns real bad real fast out on the shelf. All of a sudden, when it's maybe a half-day old or so, it'll start to *stink* to high heaven, and also turn real cloudy and dark. I didn't know the reason at the time, but when I came to study this melanin business a couple years ago, it was explained. The reason urine gets darker as it sits on the shelf is that all those hepatic and renal melanin frag-

ments in it gradually *reconstitute* themselves. It's called the melanin-reconstitution phenomenon, and it's very well known to clinicians who test urine to diagnose kidney and liver diseases.

Q. So if the lab doesn't test the urine sample while it's fresh, they'll be likely to get false positives for THC, because the melanin content rises all by itself while the sample sits on the shelf?

A. Yeah, the likelihood of an individual false pot positive rises terrifically, the longer the sample sits on the shelf. Other people have noticed this, and put it down on paper. Dr. Byron Finkle, at the University of Utah's Center for Human Toxicology, gave expert witness testimony in a 1983 military case about how a whole big batch of servicepeople's samples which had originally tested negative for any drug were re-tested, after about 18 hours on the shelf, and turned out to be positive for "THC" according to those fucking machines.

And Dr. John Whiting, who used to run the Armed Forces Institute of Pathology in Washington, now *he's* testifying to exactly the same thing. He somehow never thought to mention it when he was running AFIP, but now that Whiting's safely in the private sector, running a corporate-consulting outfit in Gaithersburg, Maryland, called ToxiChem Laboratories, Whiting will cop to it finally: when you leave piss samples be for around 12 to 18 hours, they go from negative for anything to positive for THC. And it's because the melanin fragments re-combine, and the sample turns cloudy and goes all stinky, all of a *sudden*. You can piss out the purest, clearest, *whitest* urine in the world, and just half an hour later it'll be yellow, straw colored. And seven hours later it'll turn cloudy brown and commence to stink. And if you leave it much longer, it'll turn damn-near ink black. It'll happen if you're as Caucasian as I am, and there ain't no touch of the



● **BECOMES NOTHING AT ALL** after the application of Dr. Woodford's non-secret "de-melanizing solution."

tarbrush in *me*. And I don't have any kidney or liver diseases either. God has actually been very good to me, for some reason. . . .

Like Blackstrap Molasses

Q. But why does melanin cross-react with THC specifically, and not with other drugs?

A. Mainly I think that's because THC's the only drug anyone's looked at yet as a possible melanin cross-reactant. The original proponent of the melanin theory was Dr. James Woodford of Atlanta. He conceived it around 1983, when he suddenly wound up giving all this expert-witness testimony in military piss-test cases all over the country. Woodford's a really accomplished courtroom chemist, because he not only can give really enchanting scientific testimony, but he's had plenty of hands-on technical experience with *real* forensic drug-analysis equipment, like gas chromatography-mass

spectrometry. The Georgia Regional DEA contracts out their evidence-dope testing to Woodford because he's the only dope chemist in North Georgia who knows how to run the *real* machinery.

Anyway, after the Defense Department's Judge Advocate General's Office picked up Woodford as a full-time expert witness in piss-test disciplinary proceedings, Woodford was *flummoxed* when he saw this huge number of black servicepeople pulling dope positives. Positives on black people were *way* out of proportion with positives on whites. In the long run, of course, Woodford concluded that was pretty obviously due to the fact that mainly *lower*-rank people were really getting tested, and there's a much higher proportion of blacks to whites in the enlisted ranks than in the non-com and officer ranks. Because racism is a fact of life, and not just in the American armed services.

But at the start, when Young Doctor Woodford went looking

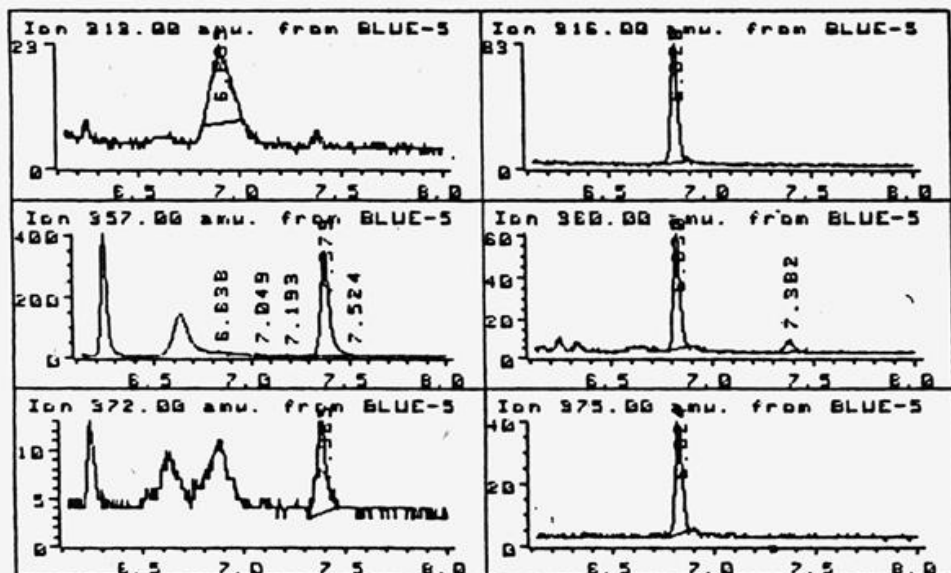
for a nice, clean biochemical reason for this apparent *race* discrepancy, of course he looked at melanin. What he discovered was bizarre. When urine's left standing on the shelf for just a little while, the melanin sort of clumps back together—it agglutinates, recombines, becomes *itself* again and turns the urine a real dark brown, nearly inky black.

That's because basically, on a chemical, isomeric level, melanin is *sticky*. It's a *carboxylic-acid* compound, and they tend to be sticky. And THC is *also* a carboxylic-acid compound. It's dark in its natural, plant-derived state, and sticky as all hell. I mean, you ever see any hash oil? Hash oil is this tarry, dark, burnt-umber, viscous gunk that sticks to everything, right? When Woodford got some samples of concentrated human melanin for testing in '83, it blew his mind how the stuff was so identical in all its physical properties to all the hash-oil samples he'd tested for the DEA over the years. It even sticks to the glassware,

leaves brown smears on it, like hash oil does. Thick and sticky as blackstrap molasses, that's melanin, and hash oil too. Because they're both basically carboxylic-acid compounds.

Now the EMIT and Abuscreen urine screening tests, they're the basic commercial screening tests for drugs. Pieces of *shit*! When they say they're looking for "THC," these piece-of-shit immunoassays are *really* only looking for carboxylic-acid compounds. So anyone who's got *carboxylic-acid* compounds in their urine, THC or melanin or ibuprofen—that's fucking *Advil*, a carboxylic-acid analgesic—comes up positive for "pot" on these immunoassays. It's just one among a million reasons why employers are supposed to have any EMIT or Abuscreen "positives" retested by gas chromatography-mass spectrometry. But most employers don't bother with the GC-Mass Spec part, of course, because there's no *law* that says they have to pay

continued over



Misc Info : BRANDY SPLITLESS 1/30 UL INJ 90-260 TEMP RAMP

Peak Num	Type	Int Type	Ret Time	Channel Description	Compound Name	Area	Amount
1	+15	1	6.826	Ion 316.0	DIS	1850	20.00 ng/ml
2	1	1	6.830	Ion 360.0	DIS	1266	19.30 ng/ml
3	1	1	6.824	Ion 375.0	DIS	817	19.34 ng/ml
4	1	1	6.855	Ion 313.0	THC	839	8.973 ng/ml
5	1	1	6.038	Ion 357.0	THC	57	0.7952 ng/ml
6	1	1	---	Ion 372.0	THC	*** Not Found ***	

Error : Could not find Calibration Peak

No Peak of Calibration Peak #6's Description at 6.859 +/- 0.137 min.

Error: Could not find all Calibration Peaks

TALK LIKE AN EGYPTIAN:

This GCMS chromatogram, though indecipherable as hieroglyphics to any layman, tells volumes about one urine sample. By matching the "ion peaks" of the control (on the left) and the suspect (on the right) samples tested simultaneously, something in the sample looks like "THC." But in the bottom line of the algorithm (line 6), in the all-important 372 ion channel, we see that THC was "NOT FOUND."

continued from previous page
all that extra money, so the hell with it. Fire the damn druggies! And brand them for life as druggies!

Sexy Brandy Splitless

Q. I've read where melanin will cross-react on the GCMS confirmation tests, too. Is that true?

A. Hey, you know GCMS?

Q. A little. It was about the only thing in chemistry I could get really interested in.

A. Oh, it's pretty. Isn't it beautiful? But yeah, when it comes to melanin, even GCMS can screw up if the operator doesn't run the machine just right. It was Woodford in Atlanta who discovered this, and just last July the JAG office of the Defense Department subpoenaed his ass off to Weisba-

den, West Germany, to either prove it in their Air Force lab there or shut up about it. And he ran off a set of historic chromatograms on their prettiest GCMS unit—Brandy Splitless, her name is—that will be winning piss-test cases from now to kingdom come.

You know the basic principles of GCMS, right? In drug analysis, you basically break down the compound into all its basic molecules and separate them out in the gas chromatograph, so when they *eleute*—sort of *poop* out of the long GC tube-column—they poop out one by one, the lightest molecules first and then the heavier molecules, into the detection chamber. Now, if the compound is THC, the molecules will always poop out in the same sequence, and the detector unit—the mass spectrometry part—will give you the *volume* of molecules that always *eleute* at each particular

point in the sequence. So it'll print out something like an EEG chart, with a lot of taller and shorter spikes rising out of the baseline background fuzz, or noise. And THC always has five or six especially conspicuous and handsome *ion peaks* in its Mass Spec "fingerprint," all in their appropriate places along the baseline, no matter what other peaks might show up elsewhere, contributed by any garbage in the original compound that was *not* THC.

Q. That's exactly the way our graduate chemistry instructor explained it. He even used THC as the model chromatogram. He's a maniac about GCMS too.

A. Yeah, I'll probably wind up consulting with his criminal-defense lawyers the first time he gets busted for synthesizing MDMA. Damn crazy young university tech-heads....

Anyhow, this GCMS pro-

cess is so reliable, and the THC fingerprint is so distinctive and well established, that most labs don't even bother printing out and examining the whole mass spectrum of suspected marijuana compounds any more, with all 70-some THC spikes in it. Instead they use S.I.M., Selected Ion Monitoring, because it saves hours of expensive operator time.

They'll just select three or four characteristic "THC" ion peaks, depending on which sort of synthetic THC derivative they're running as the control-comparison sample. No matter which derivative they're using, the *basic* spike they invariably look at occurs in the 372 ion channel. Because you always get a good salient spike over the 372 ion channel with THC. But what *other* carboxylic-acid-based organic compound in nature *also* gives you a big handsome peak

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ACTIVIST NEWS

abuse of authority. The police conducted a three-day undercover operation at the local high school with drug sellers as the target. While **no drugs** were found, **eight high school students** were **arrested, handcuffed**, and held at the police station for several hours while being **denied** a phone call. All this was because they possessed **tobacco**, a violation of a 1981 state statute which forbids the possession of tobacco or paraphernalia by a minor. When the students asked why they were being arrested they were told to shut up. Needless to say, their parents were rather upset with the treatment their children received at the hands of the police; they let the police chief know it.

There are several parallels in the two stories. Both are examples of a **waste** of taxpay-

Pot Prohibition Leads to Law Abuse

BY BURT D. NEAL
NORML Asst. National Director

Much of our current administration's "war on drugs" rhetoric deals with the theme that we must keep prohibition in order to save our children. While I agree that minors should not use marijuana or other nonmedicinal drugs, I have problems with prohibition as a solution. Two recent case histories are good examples of why. In both cases the authorities acted out of "concern" for the welfare of adolescents, and in both cases that concern was directed towards a prohibition solution—one that is doomed to failure because it all too often leads to the abuse of civil liberties.

Last year, when a young teenage girl from California **turned in her parents** to the police, she received national headlines and the **praises of the First Lady, Nancy Reagan**. The concept of children turning in their parents to the authorities, a common practice in Nazi Germany, was once again reborn in Western society.

When Deenna Young turned in her parents, the police found quantities of cocaine that were larger than mere "possession" amounts. Allegedly, her parents had been addicted to coke for some time and were getting drawn further into a distribution network. Despite assurances, the teenager was separated from her parents for a period of time, but they eventually faced less serious

charges than could have been pressed. If her parents had been sent to jail it wouldn't have fit in too well with the message, "**Kids, turn in your parents to save them.**"

In the first case, I have received a letter from some parents in a western state who were not so lucky as to receive the benevolence of the state—because they were not in the glare of the camera's eyes. When their 16-year-old asked for permission to leave home to find herself they did what most parents would do: they said no. Some time later both **state** and **federal** drug officials burst into their home to arrest them. They found only the one marijuana plant that the parents kept for their own use, but interrogated them for days asking about cocaine. It turned out that their daughter, dissatisfied with her parent's denial of permission to leave home, had told the police that her parents were big-time users and sellers of cocaine.

The parents were rather surprised by the cocaine allegations, for they never used the substance, **choosing instead to use marijuana**. After several days of interrogation the authorities were convinced that the parents weren't the big-time dealers they'd hoped. After piling up thousands of dollars in legal expenses, the mother was given probation, the father lost his job and served a year in jail, and the teenager got her wish and was removed from the home.

Last November in Tennessee a similar concern for drugs around kids led to a similar

ers' money and police time. The taxpayers of that western state shelled out at least \$20,000 to prosecute and jail those parents. And the taxpayers in Tennessee saw their police spend time on a three-day undercover sting that turned up about as much as the uncovering of **Al Capone's vault** on Geraldo Rivera's TV special: nothing.

In both cases common sense was thrown out the window, and an abuse of power was thought to be in order for a more "noble" cause, therefore making casualties out of the individuals as well as the cause itself. I agree that minors shouldn't use tobacco. But instead of conducting undercover stings and putting students in handcuffs as a means of controlling adolescent tobacco use, there are much more sensible solutions that might have been used.

Concerned about adolescent drug use? **How about outlawing cigarette machines?** They take anyone's money—no questions asked. Forget the "Miami Vice" tactics; they don't work in the real world, and they won't work with tobacco.

Their parents were victims twice, once at the hands of a vengeful teenager and again at the hands of a power-hungry police bureaucracy. The authorities could have checked out their primary source of information a bit further but they didn't because they were driven on by ambition based on **power**. Once they realized that they had been misled, the authorities didn't see any reason to temper

continued on page 67



TRANS-HIGH QUOTATIONS MARKET

MAJOR MARKETS

Atlanta, GA	Marijuana: South Carolina Slip	oz	140
	Shit, "really superior reefer"		
	Marijuana, "same old seedy Colombo is back"	1/4-oz	45
	Lysergide, "plenty of 125 mic blots, huge demand"	ea	5
		100	350
		vial	100
	Cocaine, "everybody's doin' it, but why?"	oz	1500
	Crack, "street legal but Hellbound Train #1; connections are scum of the earth!"	bags	20-40
	MDMA, "it's back and still transcendental; best friend on the block."	1/8-oz	250
Ft. Lauderdale, FL	Hawaiian sinse, "the good stuff"	1/4-oz	50
	Gainesville Skunk, buds galore, "very potent"	1/4-oz	40
		lb	130-150
	Local sinse, dark green	1/4-oz	30-35
	Jamaican commersh "Okay"	1/4-oz	30
		oz	75-90
	Blonde Hash, "comes & goes"	gm	8-10
		oz	125-150
	LSD, purple micro-dot, "rare but there"	one	4
		100	150-200
Honolulu, HW	Acid, 4-way red windowpane, "the best"	one	7-8
		100	250-300
	Coke, 75% pure, "sparkling rocks"	gm	100
		1/8-gm	250-300
	Crank, "this shit really sucks"	gm	80-100
	Real Hawaiian	oz	150-300
		lb	1600-2800
	Hawaiian Thai	1/4-oz	35-45
		oz	140
	"All prices daily quote depending on quality!"		
Santa Cruz, CA	No. Calif. sinse "intense"	1/8-oz	30
		oz	150-200
		lb	1800-2200
	Mexican commercial, "seeds galore"	oz	80-100
		lb	500-700
	Colombian, "paper-thin, seedy buds"	oz	125-175
		lb	750-1000
	Shrooms, blue liberty, "really scarce"	oz	80-160
		lb	500-800
	LSD, red/white blotter, "the valley killers"	one	2
Tampa, FL		100	60-100
	LSD, Grateful Dead, "all over"	one	2
		100	40-100
	Coke, "mostly cut, not worth it"	gm	100-120
	Crystal meth, "goo isn't for real"	gm	100-120
	Speed, "crystal, bad"	one	3-5
	MDMA, "huge demand"	one	10-15
	Skunk Bud, "sweet and sticky"	1/4-oz	50
		oz	150-200
	Red-haired sinse, light green	1/4-oz	40

AROUND THE U.S.

Albuquerque, NM	Indoor African-Indica, "The Rad, que chit shit"	oz	200
	New Mexico outdoor skunk, fruity taste, "Rocky Mountain High"	oz	180

Prices current as of January 15, 1987.
Send quotations to: THMQ,
211 E. 43rd St., New York, NY 10017.

Green Mexican	sinse, nice buds, "does a good job on the head"	oz	100
		lb	850
	Brown Mexican buds, some seeds, "it does the job"	oz	100
		lb	800
	Brown Colombian, "just like the good ole days"	oz	120
	Freeze-dried mushrooms, "very potent"	gm	7
		oz	95-135
	Blue Diamond acid, "excellent high"	hit	5
		100	200
	Cocaine, "the greatest rocks in the nation; direct from I-40"	gm	100-130
Crank-meth, abundant, "the best in the U.S.; Feds everywhere"		gm	80-120

How bad is the drought in your state? Write THMQ and let us know — EDITORS

Danville, KY	Colombian, "bullshit"	oz	80
		1/4-lb	200
	Colombian, "seeds and stems, but decent"	oz	100
		1/4-lb	200
	Local homegrown, red-haired sinse, "plenty, kickass"	1/4-oz	30
		oz	120
	Unmanicured buds, "good buzz"	1/4-lb	350
		1/4-oz	25
	Homegrown buds, "seedy"	1/4-lb	275
		oz	25-30
Derry, PA	LSD, blotter	1/4-lb	275-325
		one	5
		100	350
	LSD, dots, "shitty"	one	4-5
	Coke, "primo pink haze rocks"	gm	100
		1/8-oz	275
	Mexican sinse, "nice"	1/4-oz	35
		1/2-lb	700
	Colombo, not many seeds, "fair"	oz	70
	Homegrown sinse, "fair"	handful	20
Ocean County, Jersey Shore	Hash, stems & seeds? "sucks"	gm	10
	Acid, purple micro, "good"	one	5
	Acid, orange barrel, "pass up"	one	5
	MDMA, B.O.B., "great"	one	15-20
	Quaaludes, Florida origin	one	5
	Indoor indica sinse, acrid smell, green and brown buds, "comes on slow-narcotic high"	1/2-oz	130
		oz	250
		lb	3000
	Jersey swamp weed, (origin unknown), light green buds "save yr money"	oz	150
	LSD, "blotter"	ea	4-5
Palmer, AK	Coke, "top quality rock"	gm	120
		1/8-oz	325
	MDMA (XTC)	ea	15

Richmond, IN

Hawaiian Hash, "scarce"	1/4-oz	60-70
Hash oil	gm	10
Mushrooms	1/8-oz	25-30
LSD, blotter	ea	30
Cocaine	gm	5
Bunk, brown & green, everywhere, "I'll quit first"	1/4-oz	150

Sayreville, NJ

Indica Buds, rare, "the only good I've seen since summer"	1/4-oz	60
Skunk, "mild smell and buzz"	1/4-oz	45-50
Two Tone Hash, "black outside, dark gold inside, great buzz and taste, have not seen any since Fall"	1/4-oz	35
	oz	120

Silicon Valley, CA

Journey blotter, "refreshing change, mild"	4-way	20
Thai Buds, "some seeds, but potent"	1/8-oz	25
Jamaican sinse, "great, dreamy, and seedless"	1/8-oz	30
Crud commercial, "bullshit"	oz	80
Shrooms, "scarce, but the best"	1/8-oz	20
Acid, Green blotter, "Wango Tango!"	hit	5
Acid, Camouflage sheets, "good, my stuff"	hit	3
Acid, White blotter, "average stuff"	hit	2-3
Acid, Rainbow blotter, "real good"	hit	4
Mesc. Double Barrels, "cures that headache"	hit	3
Cocaine, "around, but I quit"	1/4-oz	25-35
XTC, "if you can find it"	hit	15
MDMA, clear capsules w/powder	one	8-15
MDMA, blue tablets, "powder from up North/ lots of people are using XTC today, I feel most of it is cut with MDA, which will make you feel lousy the next day"	one	10-15

St. Charles Town, MI

Thanks to Nancy, green sinse, "good shit"	1/4-oz	25-35
	oz	30-40
	lb	1800
Hash, "scarce"	gm	6-8
Acid, Black blotter	hit	3
	1000	700
Coke, rock, "flakes for flakes and junkies"	gm	100

Spokane, WA

Speed, blue & clear Pot: all different kinds ranging from skunk to indica, "no dry-outs here"	hit	2-50
	gm	10
	1/4-oz	50-65
	1/2-oz	110-120

Upstate NY

Mushrooms, blue cubensis	oz	70-80
Acid:		
Blue Diamond, "still around, mild stuff"	hit	5
	100	190-200
Double Dipped white blotter, "supposed to be 300 mics a hit"	hit	5-7
	sheet	200
Uno #1, "it's back and it's good"	hit	5
	100	200-250
Global blotter, "intent, clean"	hit	5

Note: We have managed to keep the bunk dealers down to a minimum for over a month now. Let the revolution begin!		
Brown weed, "seedy, but good"	1/4-oz	30
Seedy green, "speedy buzz"	1/4-oz	50

Sinse, lots of red hairs, nice taste, "potent, but not killer"	1/4-oz	50
Hash, "awesome" trip, all sorts available, Globe and #1 "the best"	gm hit 100	10 5 200
Coke, "purity varies"	gm	100
Westminster, MD Colombian, seedy bunkweed, "bullshit"	1/4-oz oz	25-30 90-100
Sinse, seedy buds, "good quality"	1/4-oz	35
Indica-Sativa, "candy-sweet buds"	1/4-oz	135 40
Black hash, "gummy & potent"	gm 1/4-oz	8 40
Shrooms, need 2 or 3 for a good trip	gm	8
Acid, White blotter	hit	40
Acid, Album Cover, advised not to eat, "not true LSD, fair warning"	hit	3 210
Winston-Salem, NC Skunk, X-2, "fresh cut, indoor buds"	1/4-oz oz	75 210-250 2500-3000
Colombo, dark, shit weed, "headache buzz"	1/4-oz oz	20 75
Commercial sinse, dark, green, dry, "basic high"	1/4-oz oz	35 120
Red hair green buds, "good smoke, seedy"	1/4-oz lb	45 155 1200-1400
Homegrown, "green & seedy, 1/4 shake, 1/4 buds, T.W. III ripoff weed/smoke yr bag & you might get a headache, not a high"	1/4-oz lb	20 65 750
Shrooms	gm oz 1/4-lb	8 100-150 350-450
LSD, white on white, "OK trip"	one	5
LSD, Orange microdot, "9 hr. trip, take 2"	one	4
LSD, Moon & Star	one	4
Toot, good quality, very pure, "rocks"	1/4-gm gm	25 100

IN THE BOONDOCKS

Findlay, OH Mucum Panther Bud, huge buds (6-24" long), "wet, juicy, sweet"	1/4-oz	50
Morningstar, indoor grown, "rare, dry, perfumy, excellent"	1/4-oz oz	50-60 200
Meigs County, sweet, pungent, "nothing close, 1 hit shit"	1/4-oz 1/4-lb	65-80 240 700
Traverse City, MI Mexican Dirt Weed, "bullshit"	oz	100
Indica, "too expensive, but very tasty"	1/4-oz	65
Sinse, new batch, red hair, "best buy"	oz	100-130
Green Iso-style hash, "shitty taste, extremely harsh, good high"	oz	75-100
Shrooms, "not bad"	gm	4
LSD, White blotter, "very fresh"	hit	3-4 175
LSD, Album Cover, "scarce"	hit	3
LSD, Strawberry dots, "same stale hits"	hit	3
Cola, "wacked up powder (down-state original), uptown shit"	gm	100-110
Yellow rocks, "uncut? here? not much around"	gm	120
Opium, "too plentiful, OK high"	gm oz 1/4-lb	5 75 120-170

WEST GERMANY

MANNHEIM: Hash	green gm	5
	red gm	7
	black gm	10
LSD	hit	7
Cocaine	gm	150

TRANS HIGH MARKET LETTERS



CALIFORNIA

I found a grower hungry for Christmas money and gave him 600 20s for 12 grams over 5 pounds of northern California's finest! Perfect manicure. Extraordinary high. Appears to be a hybrid: *indica/sativa*. My customers will pay \$60 a quarter and love it!

Anon E. Muss
Downtown San Francisco

HAWAII

Your Honolulu quotes in the January '87 issue must be from the '70s, or else you're quoting leaf! Come on guys, get real. (Check Hawaii update, THMQ—Ed.)

Aloha
Honolulu, Hawaii

ILLINOIS

I have always wanted to see some quotes from Illinois, and especially central Illinois, in HIGH TIMES. It's nice for your readers in all the other states, but it makes a lot of my friends really drool to see what can be had in other cities and states. Their problem is they don't know where to look for the good quality stuff. Lately, I have become lucky enough to maintain good connections for my personal stash. Prices are too high on the really high quality buds, but they are plentiful enough. I expect prices to drop even more than they have. Good sinse has been available all summer, but not to the general public. Quite a lot of money was made by myself and a few close friends by selling the loose leaf from some good plants growing slowly in basements all over central Illinois. The buds have been harvested, and are plentiful. But the main problem is that the growers were getting an outrageous \$800-1000 a pound all summer for the leaf for these plants. This means they expect to get twice that for the buds. These are some of the best buds I've ever seen, and a slight price increase is in order with inflation and this Reagan crackdown. But I really think some people should make a stand against their dealers who are charging these prices. The line "Good sinse is all over town for \$30 a 1/4" won't work. Trying to

bullshit your dealer will only frustrate him and won't make him lower prices. The only thing that will bring down prices is an honest dope grower passing on good buds for a good price to the public.

Rock Parole
Normal-Bloomington, Illinois

VERMONT

Let me tell you how bad it's been here. Now, you have to run your ass off to snag some half decent VT. homegrown. Not to knock this beautiful state, but a bit of "California Dreamin'" would be quite welcome. Basic homegrown, green but shakey, can get to be \$30 for 1/8 oz.; 1/4 oz.: \$50-\$60; 1/2 oz.: \$100; coke: the same, \$100 grm; shrooms: beautiful lately, \$35 1/4 oz.

Be Cool
Burlington, Vermont

VIRGINIA

We got a lot of drugs down here in the capital of the Confederacy, Richmond, VA. Now that the buds are back we can stop doing all these chemicals and really get buzzed like the Ganja God wants us to. Keep up the good work and thanks for not getting on the crack bandwagon.

Kriss, Doug, Karen
Richmond, Virginia

WASHINGTON

Generally, Spokane is doing fine for smoke. I've been between Alaska and San Diego in the last few months, and this is the only place I've been in this year with good, easy access for dope. I like it! Also, since the psychedelic revolution is hitting again, I had an idea: why don't you guys print something about all the different kinds, names, and quality of acid?

Your Fellow Fry Brain

Got prices and info your fellow heads should know about? Send your reliable quotes and comments to Trans-High Market Quotes, c/o HIGH TIMES, 211 E. 43rd Street, New York, NY 10017.

Evan Sloane is the proprietor of a new, nonpartisan political outfit called QUESTION AUTHORITY, INC., dedicated to the general principles of anti-authoritarianism. The dismantling and abolition of the urinalysis racket in America is only the immediate objective for Sloane in what promises to be a long and troublesome career of confounding ultra-righteous hypocrites of all sorts. HIGH TIMES has extracted the following from a very useful white paper on urinalysis issues, which is available for \$8 from QUESTION AUTHORITY, POB 151251, San Diego, California 92115. Sloane's outfit is also the source of the illuminating, how-to-beat-piss-tests phone tape costing \$2 plus toll, available by dialing (619) 976-TEST.

While HIGH TIMES does not unreservedly endorse Sloane's philosophy of indiscriminate iconoclasm (mainly because he's likely to come after us someday), we can vouch for the accuracy and thoroughness of his research. Although nearly all this information has previously appeared in HIGH TIMES, the guy has not ripped us off at all but *verified* us. He's gone to our original sources, checked them critically and intelligently, and supplemented the material with independent sources of his own. What you have here is the truth.

—Dean Latimer

HOW TO BEAT DRUG TESTS

DISCLAIMER: Current technological realities make it impossible to create a foolproof system to defeat urine drug testing every time and in every circumstance. We at QUESTION AUTHORITY are utilizing every means at our disposal to provide accurate, up-to-date information regarding these tests. Let common sense be your guide when integrating our information with your situation. Study your particular choices in detail realizing that some cannabinoid marijuana screening tests are set to measure 20 ng/ml (nanograms per milliliter, or billionths of a gram per thousandths of a liter), whereas others measure 100 ng/ml.

PISSINFO CENTRAL

TIPS FOR PREVENTING FALSE POSITIVES

1. Never give the first urination of the day.
2. Drink as much water (or other liquid) as you comfortably can in the days and hours prior to testing.
3. Passive inhalation can register positive, but not for long. It's a case of you might be positive the next morning from the night before. A person can be positive in this manner without having experienced a "high." A false positive from this source is significantly more probable at a 20 ng/ml detection level than at the higher 100 ng/ml which is often used.
4. If conditions safely permit, diluting your urine specimen with water helps and labs infrequently test for such dilution.
5. Avoid using over-the-counter drugs when a test date approaches.

The extent to which over-the-counter drugs and prescription drugs will cause a false positive has yet to be fully mapped out and is subject to change as test manufacturers try to lessen the phenomenon, but such interference with the tests is extensive. These substances listed below have produced false positives for marijuana on the EMIT Cannabinoid Urine Assay according to company literature. An equivalent list for the Hoffman-La Roche RIA test would likely *not* be identical.

ASPIRIN	DIAZEPAM	PHENCYCLIDINE
AMPHETAMINES	MEPERIDINE	PROPOXYPHENE
AMITRIPTYLINE	METHAQUALONE	SECOBARBITAL
BENZOYLECGONINE	MORPHINE	

Source: "Cannabinoid Urine Assay," Syva, 1981.

These drugs too have produced false positives: Antibiotics (**cocaine**), antihistamines (**amphetamines**), Contac, and Dristan.

These drugs also interfere with urine tests as detailed:

DRUG	BRAND NAME	INTERFERES	TIME
<i>Dextromethorphan</i>	VICKS FORMULA 44-M	Immunoassay opiates	1 day
<i>Phenobarbital</i>	PRIMATENE	Immunoassay barbituate, GC/MS	1-3 days
<i>Phenylpropanolamine</i>	DIATEC DEXATRIM COTYLENOL TRIAMINIC	Immunoassay amphetamines	1 day
<i>Diphenhydramine</i>	BENADRYL	Immunoassay Methadone	1-2 days
<i>Ephedrine</i>	PRIMATENE BRONKOTABS NYQUIL	Immunoassay amphetamines	1-2 days
<i>Amitriptyline</i>	ELAVIL	Immunoassay opiates	3-11 days
<i>Meperidine</i>	DEMAROL	Immunoassay opiates	No data
<i>Carisoprodol</i>	SOMA	TLC meprobromate	No data
<i>Impramine</i>	TOFRANIL	Immunoassay opiates	1-3 days
<i>Pyrilamine</i>	MIDOL PERMENSIN PRIMATINE-M	Immunoassay opiates	No data

Source: "Drug Tests' Reliability Is Limited, Experts Say," Los Angeles Times, October 27, 1986.

THE DETECTABILITY OF DRUGS IN YOUR SYSTEM DEPENDS ON

1. Metabolic rate
2. Frequency and potency of previous use
3. Fluid intake
4. Type of test used

TIPS FOR ACHIEVING FALSE NEGATIVES

1. Never give the first urination of the day.
2. Drink as much water (or other liquid) as you comfortably can in the days and hours prior to testing.
3. Refer to Recorded Message Script for specific drug retention times. Durations given are approximations. Know that individual retention times can vary phenomenally (7-42 hours half-life range, for instance). Try to be conservative in appraising your circumstance.
4. If conditions permit, diluting your urine specimen with water helps. Do not rely upon this alone. Also, available water may be dyed blue or some other color.
5. Refer to Recorded Message Script for other options (619) 976-TEST

Be aware that positive test results have been recorded on an EMIT in the case of a heavy marijuana user for 11 weeks after ceasing to smoke.

Our Recorded Message Script says that we felt salt is not reliable for foiling these screening tests. That salt, ammonia, and vinegar in sufficient quantity all work in this role has been verified by competent expertise. The reservation QUESTION AUTHORITY has about salt is its habit of being noticeable when it doesn't dissolve adequately.

MILITARY

Department of Defense cut-off levels for initial screening:

Marijuana—100 ng/ml (Navy at 75 ng/ml as of October 1, 1986)

Cocaine—300 ng/ml (Navy at 150 ng/ml as of October 1, 1986)

Amphetamines—100 ng/ml

Opiates—300 ng/ml

Barbituates—200 ng/ml

PCP—25 ng/ml

WHY URINE DRUG TESTS GO WRONG

We've already looked at how over-the-counter medications can produce false positives. A Las Vegas lab has indicated that 25% of their specimens test positive for amphetamines during cold and flu season, for example.

Another big reason these tests produce inaccurate results even at better labs is the human factor. Not sanitizing equipment after a positive test run or doing so improperly can result in false positives, as can clerical errors. In the instance of Veterans Administration Wadsworth Medical Center, it was cocaine on the restroom door that contaminated specimens.

Finally, there is the unknown. Test makers are learning by doing. There's a lot about these tests and cross-reactions within the body that nobody understands.

CONCLUSION

At QUESTION AUTHORITY, we appreciate your support and welcome your feedback. If you know something interesting on this topic, please pass it along to us. The Hot-Line will be updated periodically as changing circumstances warrant. You can help us by continuing to utilize our services and telling your friends about our services. QUESTION AUTHORITY is focusing upon the non-drug using mainstream of American society and carrying the message that even people who feel they have nothing to worry about are advised to become test savvy. There are ways to study for a urine drug test, believe it or not. Thank you.

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HIGHTIMES ► 29

Parity: the Drug Paraphernalia Issue

NORML — IZER

By JON GETTMAN,
NORML Director

Critics claim that the purpose of drug paraphernalia is to glamorize drugs and entice the young. Consequently, they have spent much of the last ten years making it a criminal act to possess or sell drug paraphernalia in many parts of the country.

Drug paraphernalia is hard to define, which is why you can still buy it. We all know what it is, critics know what it is, but no one can write a law that can adequately distinguish our water pipes from the tobacconist's—hence, the long shelf life of the drug paraphernalia issue. I think it is time to turn this important issue to our advantage.

In the late '70s, the proponents of making criminals out of drug paraphernalia merchants thought they were on to something big. The drug paraphernalia issue began as the vehicle for a backlash against the decriminalization of marijuana. Since then, this "movement" has stalled in a fog of complicated legalities.

My interest in this issue predates my involvement with NORML. I spent eight years in the drug paraphernalia business before discovering other things in life were more important to me than making money—like public service. I would like to offer a few words in defense of this much-maligned industry, as well as a candid assessment of its faults prior to the current era of excessive regulation and official harassment.

The first object of selling drug paraphernalia was, and still is, to make money. In the '70s, we were all led to believe that not only was making money a respectable pursuit but also that pioneering a new, legal way to do it was admirable. The paraphernalia industry was free-market capitalism at its best.

The problem with the freewheeling paraphernalia market I participated in was that we were pandering to an illegal interest in the marketing of our goods. Much like sex is used to sell cars, we were, in retrospect, using drugs to sell knick-knacks. Just as the exploitation of women in commercials offends people, our exploitation of drugs was offensive to

some, especially to parents trying to keep their kids away from any drug use, illegal or otherwise. Marketing products involves some glamorization. And some of the young are attracted by glamor, though no one has yet offered any hard evidence that young kids decide to try marijuana because they want to try out some neat new bong. Actually, the principal complaint against paraphernalia, that its very existence somehow bestows legitimacy on the drug scene, is absurd; it is the widespread use of marijuana itself that bestows legitimacy. Since marijuana is the drug

TAX IT — BUT LEGALLY!
NORML's first annual public demonstration supporting the taxation of marijuana will take place on April 15 (income tax deadline), 1987 in Washington D.C., from 10:30 am to 2:30 pm. Call NORML for the location: (202) 483-5500.

of choice for an overwhelming number of illegal drug users, the majority of drug paraphernalia sold in head shops concerns marijuana use. But sometimes, knowingly or not, goods were sold to teenagers partly because we heads were sympathetic to rebellion. Our arrogance precluded any consideration of self-regulation, and eventually various communities attempted to either regulate or eliminate paraphernalia stores.

At this level, the solution seemed simple: set an age limit, tone down the marketing, and pursue peaceful coexistence. However, it was not that simple. The real problem being confronted by both sides was a disparity between myth and reality.

The myth was that marijuana was danger-

ous, and that only fools, degenerates, and other social misfits used it, and that most people respected the laws banning its use, possession, and sale. The reality was that there was a vibrant marijuana subculture which was quite blatantly open. The existence of head shops and other vendors of drug paraphernalia was a visible refutation of that myth.

With their livelihood threatened, paraphernalia merchants acted like most honest American capitalists: they either adapted to the new laws or went out of business. Compelled by some very surreal legislation, most of the industry began to pretend that their customers weren't marijuana smokers or cocaine users, but tobacco and snuff consumers. The store I used to manage is now Washington's premier tobacco shop. And its owners don't even pretend: it *is* a tobacco store, shamelessly marketing one of the most addictive substances on earth—as well as selling most of the merchandise I sold there five years ago.

For the enemies of marijuana decriminalization, the move to ban drug paraphernalia was an effective tactic which delayed further reform of marijuana laws for over a decade. It reduced funding from the industry to the decrim movement, drove the drug subculture underground, and changed the fundamental public question from "Should adults go to jail for marijuana use?" to "How can we keep drugs away from our children?" They changed the question to preserve their myth, because the answer to their question was to pretend that no one in their right mind uses illegal drugs.

In fact, the whole campaign to go after the user of drugs as well as the supplier, the foundation of the Reagan drug policy, is an outgrowth of the movement to criminalize drug paraphernalia.

We must acknowledge that the paraphernalia industry requires some legislation. I think it was, and is, wrong to market adult

continued from page 93

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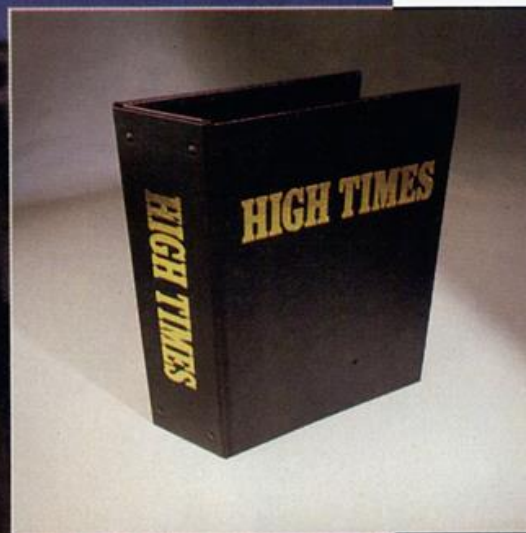
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TESTING AT THE WORKPLACE

by Steven R. Rhoads

Pursuing his own version of the American dream, 32-year-old Alan Pettigrew spent over ten years steadily climbing his way up the corporate hierarchy of the Southern Pacific Railroad Company. He started working for the giant transportation conglomerate in 1976 as a mail clerk and reached the position of office manager in San Francisco nine promotions later. But Pettigrew's advancements came to an abrupt halt when he and almost 500 other Southern Pacific employees were ordered to provide urine samples to determine whether they had been using illegal drugs.

Pettigrew was surprised by the demand. He did not think the company would require tests unless there was a reasonable suspicion of drug use. He was even more surprised by what happened to him a few days after he handed over his urine sample: Southern *continued over*

TESTING

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Pacific told him that he had tested positive for "drug use." He was given the choice of ending his career or taking a second test, but even if it showed no evidence of drug use he would be required to attend a five-day, around-the-clock hospital evaluation at Oakland's Merritt Peralta Institute.

Pettigrew needed his paycheck. He took the second test, which came up negative, and entered the hospital for five days of evaluation. Urine and blood samples taken during his stay showed no signs of drug use, and he was told he could leave after the fourth day. But while waiting for his wife to pick him up at the hospital, he was told by a Southern Pacific counselor that he

would be hospitalized for a 28-day drug-rehabilitation program. Pettigrew reluctantly attended the program at Petaluma Valley Hospital, where professional drug-rehabilitation drug-abuse diagnosticians determined he had no drug dependency. Nonetheless, Southern Pacific would not allow him to return to work unless he agreed to submit to nonscheduled drug testing and to attend Alcoholics Anonymous and Narcotics Anonymous meetings three times a week for a year. Southern Pacific also insisted that he abstain from alcohol, despite there having been no indication of alcohol abuse.

Pettigrew challenged these requirements by filing a lawsuit in the San Francisco County superior court. He asked the court for an injunction prohibiting Southern Pacific from forcing him to agree to the

requirements as conditions of continued employment. He won—at least for the time being—when the court granted the injunction on a temporary basis. The very next day, Pettigrew alleges, Southern Pacific demoted him to a clerical position, reduced his salary by almost \$1,000 per month, and eliminated many of his benefits. He is now seeking monetary damages against Southern Pacific for that action, asserting that the company breached his employment contract and acted in bad faith.

Southern Pacific, meanwhile, continues to maintain a "comprehensive" drug-testing program for employees and job applicants. It is comprehensive because it is not limited to instances in which drug use is reasonably suspected and such use impairs the employee's job

INSIDE URINALYSIS

Drug urinalysis is a fraud and a swindle. This month we're running a thoughtful, lucid, even-handed piece on the legal developments surrounding drug testing, written by San Francisco attorney Steven Rhoads, as a public service. Readers who haven't followed every issue of *HIGH TIMES* for the last five years will undoubtedly have missed some of this information, and so Mr. Rhoads' article provides a good opportunity to re-present these important legal data in one place.

I feel, however, that Attorney Rhoads is almost too even-handed in addressing this issue. He courteously gives the promoters of drug urinalysis credit for at least being honest in their basic motivations: to benevolently protect society from a perceived "drug epidemic" by testing people with what they believe to be accurate, reliable methods and instruments. And to be sure, many urinalysis promoters undoubtedly do cherish the delusion that drug use in America is at "epidemic" levels, and are so ignorant of technology and basic human physiology that they think wholesale urine testing is a rational response to their fantasy of a drug epidemic.

The loudest promoters of drug urinalysis, though—most signally, current and former "scientists" associated with the National Institute on Drug Abuse—are perfectly aware of the basic falsehoods they spout to promote the testing racket. They know

that the national incidence of drug use has dropped dramatically for every year throughout the '80s, with the single exception of cocaine use. Since even the coke-use statistics aren't really **drastically** higher than formerly, there really is no drug epidemic raging in this country at all. To go by NIDA's own statistics, in fact, people in the '80s—and **especially** teenagers and young adults—have been pretty sickeningly well-behaved all through this decade. This rather depressing development is nowhere better illustrated than in NIDA's annual survey of drug-abuse trends among teens and young adults, the "Monitoring the Future" series, available free from NIDA to anyone skeptical of what they're reading here. All the drug-use indicator graphs go **way** down throughout the '80s, with the single exception of cocaine use. So they're all lying when they bleat about an American "drug epidemic," and therefore no reason exists to give them credit for honesty.

As for the truly sorrowful prevalence of cocaine nowadays in the American workplace, street market, and schoolyard, the piss-test profiteers also know perfectly well how drug urinalysis does **worse** than nothing to ameliorate this supposed epidemic. Cocaine is virtually undetectable in urine less than 36 hours post-ingestion, providing a virtually useless "catch window" for urine monitors. Moreover, anyone deft enough to toot a line of coke through a

rolled-up dollar bill is certainly deft enough to palm a little salt or ammonia into his or her urine sample (regardless of whether anyone's "watching" or "taking the sample temperature" or whatever) to blank it. Therefore, the only people who most often get in trouble with cocaine urinalysis are victims of a false positive reading.

The piss-test profiteers know how easily that happens, too. Every year, hundreds of thousands of people have to take over-the-counter patent medications containing **atropine**, an all-purpose drugstore nostrum employed for the alleviation of everything from asthma to diarrhea to seasickness. Since it's closely related in basic chemical structure to the cocaine molecule, atropine **can** cross-react with cocaine on simple urinalysis screenings, causing a "positive" test result. The non-drugger thus becomes a victim of an imprecise technology, suffering loss of employment, intense confusion and personal anguish, and ostracism by his non-drug-using peers. Proof that this happens is not hard to come by, and it's known to all the primary pushers of urinalysis testing.

However, the fact is that no one can hazard even the remotest guess as to how **often** it happens. The various professional services that monitor the reliability of respectable licensed laboratories—such as the national proficiency-testing program of the Col-

performance. The program requires all applicants to take a urine test, and they are given only one chance: if they test "positive" they will not be considered for employment. Current employees suspected of drug use (regardless of job performance or safety considerations) are also required to submit to testing, and so are all members of any work crew involved in an accident or mishap caused by a worker's mistake—what Southern Pacific calls a "human factor incident." Employees who ultimately go through the extensive rehabilitation that was required of Alan Pettigrew will be rehired on probationary status, with the understanding they may be subjected to random drug testing. This is part of the "hammer that must be held over the head" of employees who test positive, says Southern Pacific's Vice President

By Dean Latimer

lege of American Pathologists in Chicago—simply do not bother to include atropine among the drugs they send to the labs for testing. Therefore, since no one can possibly calculate how often atropine is mistaken for cocaine in routine urinalysis testing, coke-testing is "safe" for the piss-test profiteers: no one can sue a lab for ruining their life with a false "cocaine" positive, because there just aren't any statistics on false coke positives to begin with.

But the profiteers, just as they know perfectly well that there's no drug epidemic in America, also know that some of the people ruined by "cocaine" positives were really only taking hay fever medications. They know it, but they don't mention it. And whether they suppress this information because they're personally prepared to have these innocent people crucified for the greater good of their stated social ideal—a "drug-free workplace"—or whether it's just because the truth would certainly get them sued, and just possibly jailed, is immaterial.

These people are lying. They're perpetrating a pernicious fraud that makes money for them: a swindle. There is no sense in kindly giving frauds and swindlers credit for having basically good intentions, even when they do have good intentions. In fact, unless you come straight out and call them criminals, you leave them an unobstructed field for their criminality. ●

of Public Affairs, Robert Taggart.

Southern Pacific's program is hardly unique. Many other corporations, including IBM, Chevron, and Union Oil, require that employees and prospective employees submit to drug tests. It has been estimated that over 30 percent of the Fortune 500 companies test their employees, and thousands of other employers—large and small—are expected to begin testing within a year.

Not just corporate employees are confronting drug tests. Professional athletes, many of whom were among the first employees to be tested for drugs, face heightened pressure to make submission to tests part of their contracts. Even coaches, trainers, and management personnel have been targeted by baseball commissioner Peter Ueberroth to be included as candidates for mandatory testing. Similar pressure has been placed on college athletes, as the NCAA is currently drafting rules that will require drug urinalysis for all its players. Once that precedent is established, college administrations everywhere may be urged to drug-test all students—athletic and otherwise.

An increasing number of government agencies have also begun testing their employees, following the lead of the military, which has practiced universal urinalysis since 1982. The Federal Aviation Administration was one of the first civilian government agencies to actively administer drug tests, in response to intense pressure from the White House. The FAA was designated in 1984 by the Reagan administration to lead the vanguard of urine testing for federal employees; with no union representing its thousands of air-traffic controllers, FAA employees had little chance of resisting urinalysis in the courts.

FAA employees will not be alone for long: President Reagan last September signed an executive order requiring drug tests for all federal employees in "sensitive positions." Although the order is not entirely clear about who will be required to accept testing; it is estimated that the order may apply to more than one million civilian employees of the federal government. Thus the President moves toward his primary goal in the "War on Drugs"—a drug-free workplace.

Eliminating drug use by employees is necessary, say some politicians and their constituent business leaders, because intoxication leads to accidents

and drug dependency leads to employee theft, increased health-care costs, and decreased productivity. Those pushing for intensified drug-testing cite alarming financial statistics. Republican State Senator John Seymour of Anaheim, a strong supporter of comprehensive testing, claims that California alone spent \$18 billion in 1983 because of drug abuse. That is more than the amount estimated by the Research Triangle Institute to be lost to drug abuse annually in the entire country. And far more money—over \$31 billion—is estimated to be wasted each year because of alcoholism, according to the National Institute of Alcohol Abuse and Alcoholism.

Whether the cost is \$5 billion or \$50 billion, however, there is no question that substance abuse costs money. Yet some civil libertarians and union leaders (and at least one Reagan cabinet officer quoted anonymously in the 25 November 1986 *New York Times*) argue that the cost to freedom caused by comprehensive drug-testing outweighs the financial cost of drug and alcohol dependencies. This, they say, is especially true since recent statistics, including some gathered by the National Institute on Drug Abuse, fail to show the "epidemic increase" in drug abuse claimed to exist by most of the proponents of employee drug-testing; in point of fact, NIDA last autumn reported a drop in the use of all drugs except cocaine by Americans, and the increase in cocaine use was hardly of "epidemic" magnitude.

Infringement of privacy is the primary concern of those who argue against drug testing. The American Civil Liberties Union notes that privacy is the cornerstone of freedom in the United States, and compares today's programs with policies that allowed indiscriminate searches of anyone in colonial America by King George III's soldiers to uncover those few who were committing offenses against England. These "general searches," the ACLU reminds us, "were deeply hated by early Americans, and were a leading cause of the Revolution."

Drafters of the Bill of Rights were mindful of government intrusion and responded with the Fourth Amendment, which prohibits "unreasonable search and seizure" and generally requires the government to have "probable cause" before searching a person or property. The Fourth Amendment, combined with the First Amendment right to free

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association, is the basis for a right of privacy guaranteed by implication in the United States Constitution. The special importance of that right was early recognized by America's judiciary and was long ago referred to by Supreme Court Justice Louis Brandeis as the "most comprehensive of rights and the right most valued by civilized men." Brandeis called it, succinctly, "the right to be left alone."

Two other highly valued rights in America, also claimed to be abridged by drug testing, are the right to be presumed innocent until proven guilty and the right against self-incrimination, as provided for in the Fifth Amendment. These rights were raised in debate last April over a suggestion by United States Attorney General Ed Meese's Commission on Organized Crime that virtually all workers in this country be given drug tests. Such a broad application of comprehensive testing was considered by California Congressman Don Edwards, Chairman of the House Subcommittee on Civil and Constitutional Rights, to be repugnant to the American judicial system. California Assembly Speaker Willie Brown has been reported as saying that a proposal in Sacramento to require all state lawmakers to take drug tests "moves us toward the process of a police state." Many others think of the rush toward testing as the '80s version of the infamous loyalty oaths of the McCarthy era.

Ideology and political philosophy, however, are not the only reasons for objecting to comprehensive drug testing; practical considerations also exist. One was raised last September during a Congressional hearing in the same week President Reagan announced drug testing for federal employees: the possibility that disclosing medical information may lead to discrimination in employment. Thousands of epileptics, for example, are treated with barbiturates, a drug often associated with illegal use, or with Dilantin, a nonabusable anticonvulsant which epileptics must take daily. These epileptics risk losing their jobs or not being hired to begin with, because many employers erroneously believe they present a danger to themselves and to others. They also risk having the unsavory label of "drug addict" attached to their names, as does virtually everyone else required to take a drug test. The simple, low-technology

drug tests commonly used to screen employees and job applicants cannot accurately distinguish between illegal drugs and common over-the-counter medicines. The more sophisticated tests that some employers have now begun using (because of lawsuits like Alan Pettigrew's), are so complicated to operate that they, too, often lead to inaccurate results.

Some scientists now believe that various common substances (such as herbal teas, poppy seeds, and antiinflammatory drugs) found in urine samples may be identified as illegal

● The law concerning drug testing is simply too unsettled for anyone to say with certainty that a given drug testing program will be considered legal or illegal, constitutional or not. ●

drugs. Some opponents of the tests also argue that they should be prohibited because of the possibility they will be misused by employers to falsely justify terminations. Such an allegation of misuse was recently made by a woman who was fired from her job at a nuclear power plant after having reported safety violations to government authorities. She claims that after plant managers learned of her report they made her take a drug test and falsified the results to provide a legitimate reason for her termination. She will not be the last terminated employee to make this kind of allegation.

Courts across the country already are hearing cases brought by employees and job applicants required to take drug tests. A federal district judge ruled that the urine-testing program of the United States Customs Service—propounded by the Reagan administration itself as a model for all government agencies and private industry—"violates numerous provisions of the United States Constitution and must be enjoined and declared unconstitutional." Plans to

test narcotics detectives in the New York City Police Department were disallowed by a state court judge last year, as were testing programs for schoolteachers on Long Island.

A federal judge in Iowa held it was an illegal search and seizure to require prison guards to submit to random testing. Another federal judge ruled in favor of 17 New Jersey police officers and fire fighters who had been suspended from duty after random testing indicated drug use. The judge said testing should not be required unless reasonable suspicion of drug use exists. Adding a point similar to that attributed by the ACLU to colonial Americans, the judge wrote: "The public interest in eliminating drugs in the workplace is substantial, but to invade the privacy of the innocent in order to discover the guilty establishes a dangerous condition, one which our Constitution mandates be rejected."

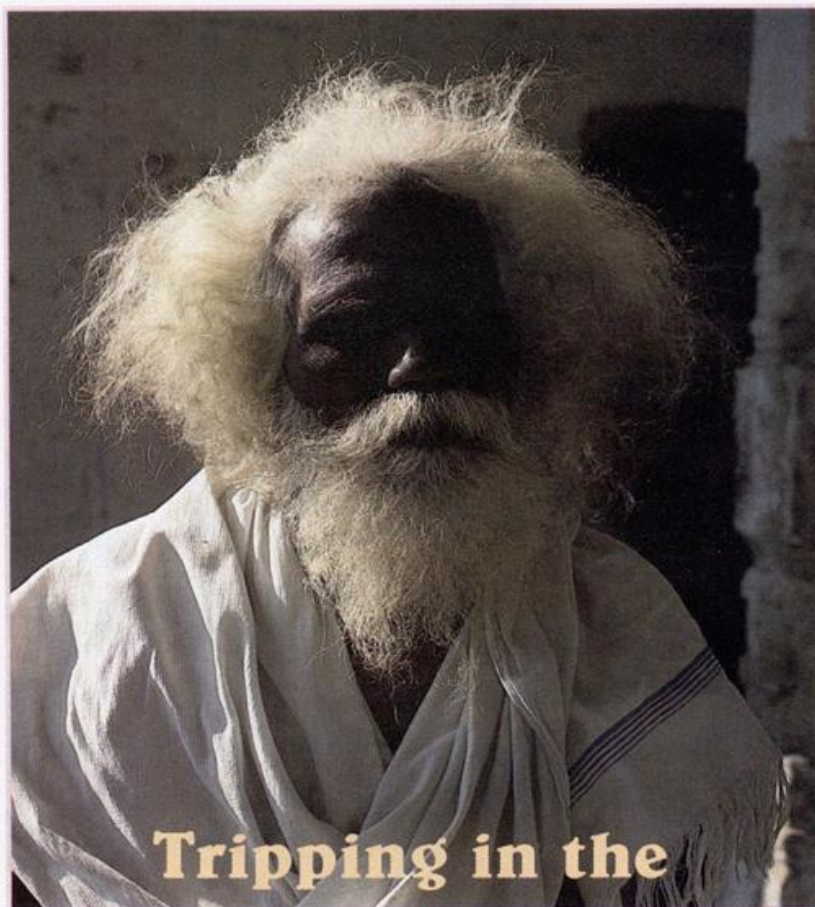
Still, uncertainty abounds. The law concerning drug testing is simply too unsettled for anyone to say that a given drug testing program will be considered legal or illegal, constitutional or not. This uncertainty can be traced to the lack of statutes and appellate court decisions regarding drug testing. Some federal regulations (as well as President Reagan's executive order) provide for testing, but no federal law says when testing will be considered legal. And no definitive appellate decision on the constitutionality of testing has been handed down to guide legislators in drafting drug testing laws or employers in implementing drug testing programs.

San Francisco did not idly wait for the federal or state government to act. Instead, the city passed its own law to regulate the use of drug tests. The San Francisco ordinance prohibits comprehensive drug testing by employers in the city, but it does allow testing if reasonable grounds exist to believe the employee's faculties are impaired on the job and the impairment presents a "clear and present danger" to the safety of others. If these two elements are present, the employer may demand a urine or blood sample. But the sample must be evaluated by a state-licensed laboratory at the employer's expense, and the employee is to be given an opportunity to refute or explain the results before any action can be taken against him.

The prohibition against comprehensive drug testing is only part

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BENARES:



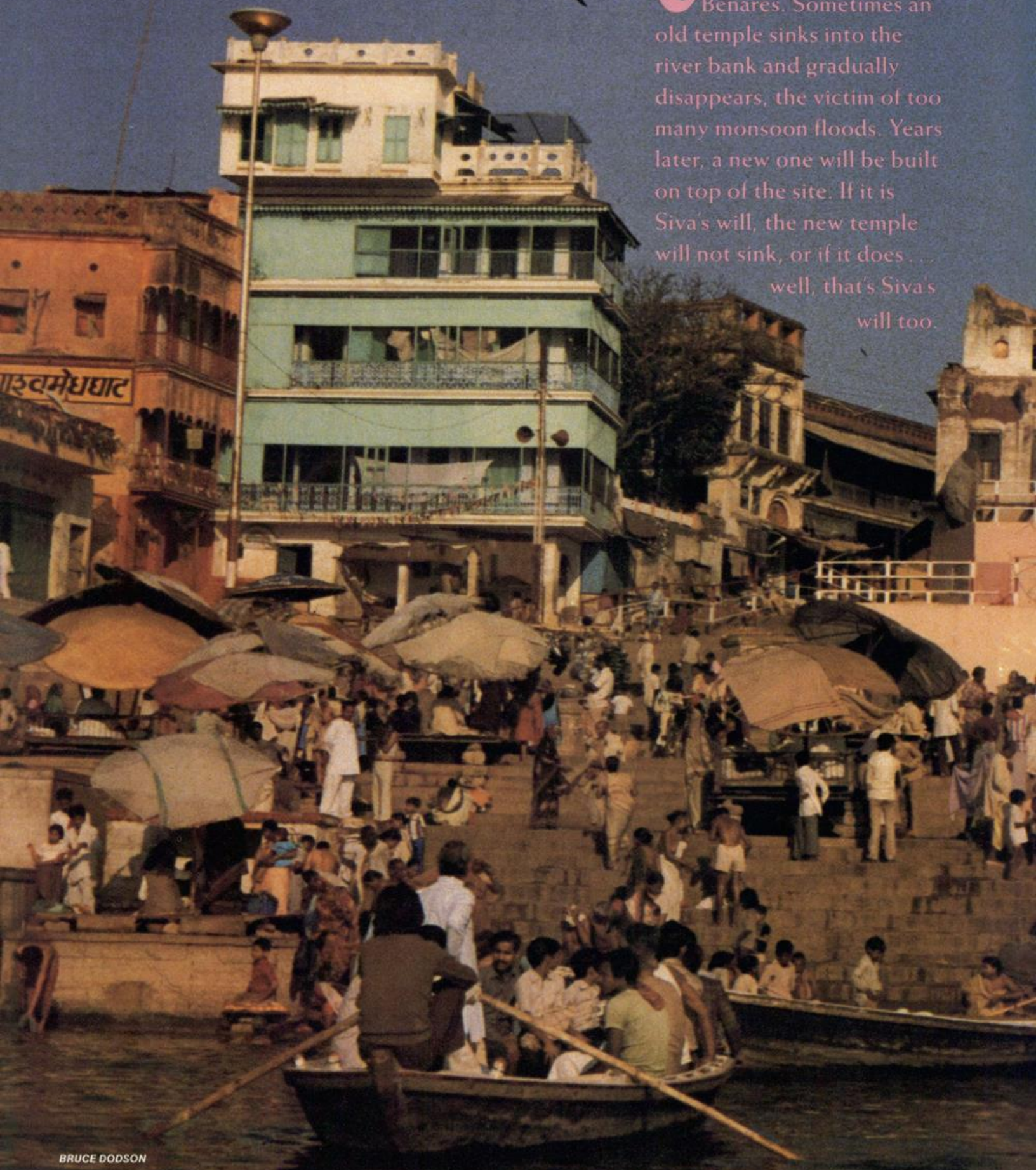
BRUCE DODSON

Eternal City of Death.

by Bruce Dodson

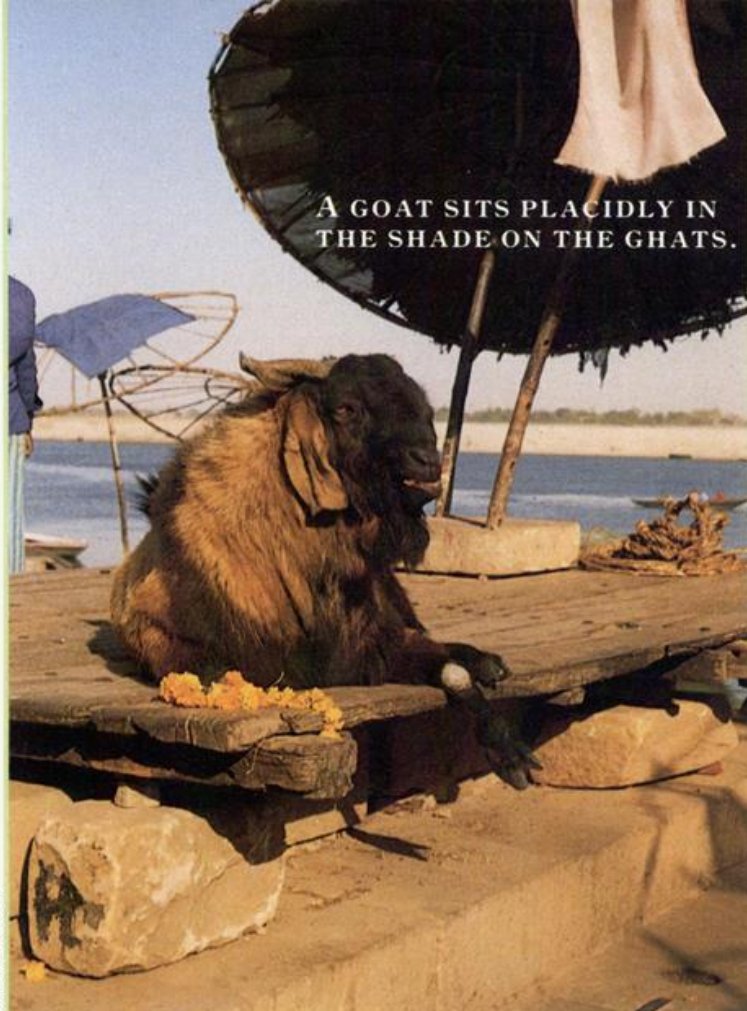
For the past 2,000 years, Benares has been the foremost Hindu holy city in India. The city is famous for its ghats—concrete and rock-hewn steps that extend into the Ganges River at odd and unpredictable angles. There are hundreds of them, each one built as an individual unit, by different people at different times.

Change comes slowly in Benares. Sometimes an old temple sinks into the river bank and gradually disappears, the victim of too many monsoon floods. Years later, a new one will be built on top of the site. If it is Siva's will, the new temple will not sink, or if it does... well, that's Siva's will too.



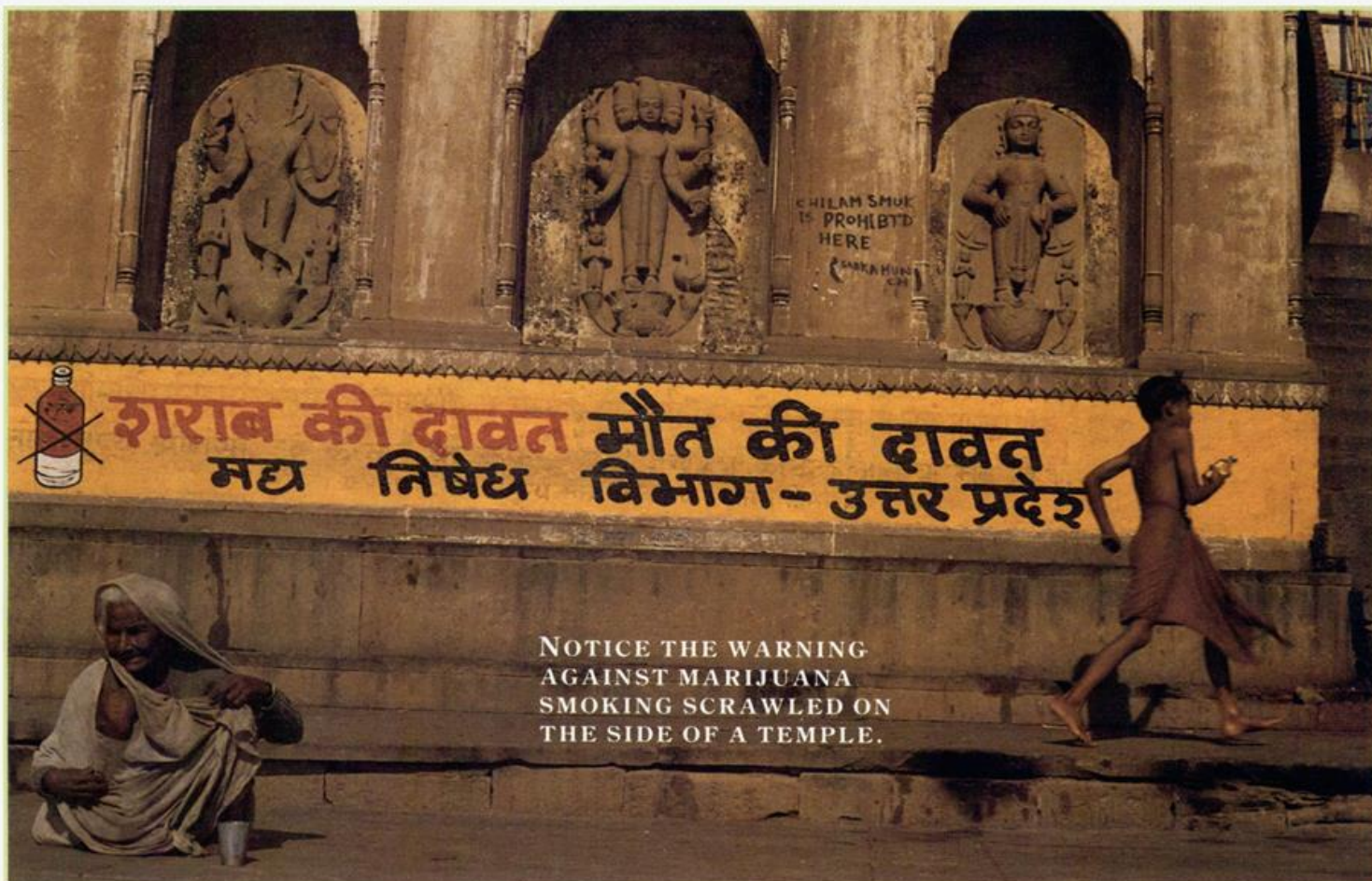
BRUCE DODSON





The ghats begin at the base foundations of large temples and apartment buildings that line the river bank. Bags of garbage soar down from the apartment windows high above to splatter on the steps below. Beggars poke through the remains to find what they can use, followed by cows and goats grazing the concrete flats. At nightfall, rats come and take what little has been left. A minor Hindu ecology cycle.

It is evening, the best time of the day, in the best time of year. It has been over 12 years since we were last here. The February sun creates warm breezes and the Ganges flows by slowly. Ancient wooden sailboats drift with the current. An old man rows a group of Hindu pilgrims upstream, oarlocks creaking. He pulls the heavy load without effort, his strokes perfect and unstrained. How many years does it take to learn to row like that?



Time gets lost here. I look to find something relating to the modern world but can find only a bicycle in the distance. A long line of washermen started the day beating clothes against the flat rocks placed at the water's edge by their forefathers. The laundry was laid out on the steps to dry in the sun and is now being loaded on burros for the passage back to the hotels. Naive tourists never know what their garments go through.

A short walk brings us to the first of two cremation ghats located on this section of the river. Five bodies are burning on separate pyres. Two of the fires are almost out now. Dogs are testing the heat in an effort to get at a hand that has been burned off at the wrist. One grabs the morsel, quickly turns, and tries to run with it. The others jump him, and a vicious fight begins.

Never-ending groups of voyeurs watch the burnings. This day's crowd is mostly Hindus, a few Japanese, and one white guy with a beard, tweed coat (leather patches on the elbows), glasses, and a pipe. He looks like a Harvard professor, foot upon a guardrail, pipe in hand. He watches as the bodies sizzle in the fire. Now he has seen it all.

We walk on, looking for a place to do some acid that a fellow traveler traded for a roll of color film. I plan to trip tomorrow night, on Shiva Rati. Shiva Rati is a celebration of the marriage of Lord Siva to the goddess Paravati. Benares is Siva's hometown.

Hindu scripture tells us Siva used to live alone on top of Mount Kalish, high in the Himalayas. He spent his time there meditating and enjoying an occasional chillum pipe of ganja. Siva is known to have a taste for dope: hashish and bhang are still offered to him on important occasions. Siva finally fell in love with Paravati, but she didn't like it in the lonely mountains. She talked Siva into moving into town, and he took Benares for his home. He's lived there ever since—a long time.



As principal deity of the city, Siva's wedding celebration goes first class. Some 700,000 people are expected for the celebration tomorrow night. The temples have been gilded, cleaned, and painted. Brass bells have been polished. It will be a little bit like Mardi Gras in Rio. Hashish and bhang candies wrapped in silver foil will be distributed by the bucketful to revelers. Floats of deities will be pulled through the narrow, convoluted streets in seemingly endless parades. Lines of teenagers will march behind them, long fluorescent-lighting tubes balanced precariously on top of special hats, the essential generator following in a wheelbarrow. Hundreds of thousands of people will try to get into the major temples to receive an auspicious holy-day blessing. A few are usually killed in the attempt.

My plan is to get there early and walk up the river, away from the main ghats where the center of activities will be. I want to observe while under the influence, yet at a safe distance away from the crowds. At evening's end, we'll follow the outer edge of the masses as they recede into the city proper. The plan looks good on paper.

We find a spot, and on the way back from our reconnoitering stop at one of several outdoor tea stands for some coffee. On a wall just behind us someone has written "Chilam smuk is prohibited here." Several stoned French hippies are slouched on a wooden bench, one has a saxophone wrapped in a dirty cloth bag at his side. An old holy man, in rags and with a white beard, is

sitting near us. We ignore him, absorbed in watching boats go up and down the river. We are almost lost in our own thoughts, but now the holy man addresses us. He can't resist new blood.

"Ganges." He is pointing to the river.

I agree with him, and we continue watching boats.

"Holy river," he continues.

"Yes, I know," I tell him.

"If you take bath in Ganges, all sin is washed away."

"I'll bathe tomorrow," I promise. As an afterthought, "Where does all the sin go?"

"Sins wait for you."

"Where?"

"Here. There," he points to the river bank. He laughs. A great joke.

"Why bother then?"

"Why not? For the moment. It is ritual, very old ritual. Good for karma. Holy city," he mutters to himself. "Want to see burning ghats?" he asks with enthusiasm.

"We've seen them already." He's disappointed with my answer.

"Holy city," he repeats. "If you die here, in Benares, you will go to heaven. No matter what. Even if you are the greatest sinner, no matter." He points overhead. "Hole in sky here, you can go direct to spiritual world, real world. Nothing can stop it, there is no judgment. Only in Benares is this possible. All new souls come to earth through hole in sky at Benares.

"This is city of life and death," he continues. "City of Siva. City of ten thousand lingams. Siva lingam." He grabs his crotch to make sure we know what the lingam stones represent. "Siva lingam is the source of all life, all things. Siva is life, and also death. Beginning, end, Siva, Benares."

I can't help looking skyward, hoping for a glimpse of heaven. Nothing but darkening sky. The moon is coming up, and bells are ringing in the temples along the ghats. They never stop; one temple ends, another begins. A few



**We make
our way into
the masses
holding
tightly to
each other.
If separated
there is little
hope of
finding one
another in
the frenzied crowd.**

floodlights come on, spaced widely along the river, glowing softly, pearls of light. Some Hindu pilgrims on the steps below launch a little fleet of boats made of leaves, each carrying a small candle. They twist slowly as they find the current, then drift downstream, a small flotilla of lights. Each boat carries its own secret prayer.

"We've got to go," I tell the holy man. I pass him a few coins. "It's getting late." He puts the change into his pocket without counting it.

The next day we sleep until lunch is served at our hotel, a French place called the Hotel de Paris. It was built back in the '40s in the old style: huge rooms, windows looking out onto a veranda, and a carpet that smells like the mummy's tomb. This morning's paper says the inner city will be closed to traffic due to the expected crowds. We decided to leave the hotel early, get as close as possible by rickshaw, and then walk to our preselected "drop" zone.

We start out at four. The streets are crammed with people all dressed to see the parade and visit temples. Traffic has few rules here. Cows and bullocks, cars and rickshaws all compete for empty spaces in the glutted arteries of this eternal city. There are many minor accidents, but narrow streets laid out a thousand years ago prevent a speed that kills.

Street vendors run between stalled vehicles to sell fat garlands made of marigolds for worshippers to offer to the deities. Elizabeth buys two and holds them in her lap. We're going very slowly now—a cow has squeezed itself between us and a bullock cart. Suddenly it turns its head and chomps our marigolds. We're so surprised we don't make a move to grab them back.

"Maybe the cow needs the flowers more than Siva does," Elizabeth speculates Hindu-esquely.

"Yes, I think so."

The traffic finally comes to a dead stop and we get out to walk. An hour

later we are in position. We pick a good spot for the evening, looking northward down the river from the south end of the ghats. We are about a hundred feet up on the steps and have a bird's-eye view of passersby. A high brick temple wall is at our backs. It angles off, ending up below us on the promenade. Bricks have fallen from the wall in many places. Pigeons have moved into the holes, swank condos with a view of the Ganges. Not bad, for a pigeon.

We spread out our gear: an old stainless-steel army canteen full of orange juice, canvas to sit on, two inflatable pillows, camera, city map, a compass, and a small flashlight. We also have a little grass, three silver-wrapped bhang candies purchased at a shop near our hotel, and four hits of "acorn" blotter LSD. I down the acid with a slug of orange juice as Elizabeth begins to eat the bhang.

"Boom."

"Boom," she answers.

"What does that stuff taste like?"

"Dirt... and sugar," she muses. "Want some?"

"Maybe later."

We sit in silence for half an hour, just watching people and the river. Temples glitter in the fading sunlight, many of them covered with gold foil or bestrewn with miles of Christmas-tree lights. Now an old man in a soiled dhoti comes by. He is holding something very carefully between his hands. As he gets closer we can see that it's a wounded pigeon, which looks as though it had flown into a wall at full speed. The old man walks up to the wall and carefully places the bird in the highest hole that he can reach. Stepping back to observe the installation, he mutters, "A good place to die." He turns and walks away.

Ten minutes later kids come by and spot the bird. None of them are tall enough to reach the stricken flyer, but they are an enterprising bunch. Two of them bend over by the wall, a third begins to climb up on their backs.



**"If you die
here, you go
direct to
spiritual
world," said
the holy
man. "Hole
in sky here.
All new
souls come
to earth**

through hole in sky at Benares."

I want to save the bird but am a stranger here, and I'm getting stranger by the minute. I'm not sure if I can walk, much less confront five teenage Hindus. Now the climber's got the needed altitude and he begins to reach.

"Chalejao, utar jao!"

The old man's back and screaming at the boys. He throws some rocks in their direction as they topple from their makeshift pyramid and make a safe retreat. He tells them something and they go away without a comment, no big deal.

The old man looks at us and raps a few dozen words in Hindi. Now and then he points up at the bird. I nod back affirmatively, promising to protect its final hours.

As darkness falls, parades begin depositing crowds into the main ghats. They are chanting, "Siva, Siva, Paravati!" Other mantras are broadcast into the night by loudspeakers on the temples; bells are ringing everywhere. Red, blue, green, and yellow lights are twinkling in the distance. Suddenly, it all goes black.

I am no longer on the earth. I am existing in a dark and silent space—existing, but not physical. I feel content, happy, no desires or needs, no thought, no past or future to be thought about, just perfect emptiness and space. Then something... sound, a banging. Blang, blang, blang, a steady, never-ending rhythm. It's fascinating. What is it, where does it come from? How can there be sound within a void?

I somehow regain the sense of sight and begin looking for the sound. I see a hundred thousand colored lights below me, yet I can't identify them: these are the first things I have ever seen. My presence slowly drops down toward them. I can see temple buildings but have no idea what they are, just intriguing angles, lines, and spaces. Now more sounds, those of voices, language. I keep trying to understand it. Suddenly there is thought where there was none before. First thought: "What is going on

here?" I continue sinking, picking up a lot of gravity that I want to be rid of. I try desperately to get back into the space where I had been, to stop the thoughts from coming. Nothing works.

"Oh God, no! Help me!" I'm back on earth. I hear that sound of blanging again. Bells, of course! A sneaky trick. Try not to look in the direction of a bell you hear and you won't know where it's coming from. Elizabeth is sitting next to me. "I didn't want to get born," I tell her.

"Who did?" she counters.

"I was tricked into it."

"That's life." She's always been good at short answers.

A barrage of fireworks lights the sky above the river front. Stone temples act as movie screens, reflecting brilliant colored lights exploding high above. Below are 700,000 people screaming, "Siva! Siva! Paravati!" The wedding is over.

We stuff the gear into my backpack and begin to stumble down the steps. "Is it totally black out here or are my eyes dilating in the wrong direction?" I ask.

"It's totally black," a shadow answers. "They turned all the bloody lights off."

She's right, the floodlights all along the ghats have been put out. It's a logical decision, after all: the party's over. No one in their right mind should be here this time of night except the beggars, wharf rats, derelicts, and petty criminals who call it home. Too much light would make it hard for them to sleep and simply waste a lot of electricity.

"The flashlight," I beam, pleased that I've thought of everything. We dig it out and I screw the lens cap tight to turn it on. It's one of those little waterproof models.

"Maybe it works better underwater," Elizabeth quips. She has a point: the light is barely strong enough to show three feet in front of us.

"I'll put it back."

"No, I'll take it." She holds out her hand. "It's better than nothing."

We make our way slowly downward toward the river. Shanty boats have tied up to the ghat's edge for the night. A group of men are sitting in the dim light of a lantern someone set out on the bow of a small rowboat. Some beggars, two old fishermen, and several ragged street boys sitting near the light are smoking cigarettes and drinking out of bottles. They're a scurvy-looking crew, a family portrait from a *Zap* comic. "Are we inside a '40s pirate movie, or is this reality?" I ask.

"It's real," Elizabeth says. "Just keep moving, we're okay."

"They're interested in us, they're watching."

It has suddenly occurred to me that we are carrying \$600 worth of camera gear, enough to keep them all in native luxury for six months. I look back over my shoulder. "They're still watching us." They're more than interested, they're fascinated. Not too many whites come down this way, and those that do come by in daylight and in tour groups.

"You want boat ride?" one of them calls out to us. The others laugh.

"Tomorrow," I call back.

European women are considered to be sexual adventurers by Hindu men. Now here we are, it's almost midnight, just Elizabeth and I alone. "Kill the light," I tell her.

"What?"

"Kill the light!"

"We can't see without it."

"We can't see with it. We're just spotlighting ourselves for every sleazo that's wandering around down here tonight. Besides, I can see." I wasn't sure if this last statement was the truth. I seemed to have a visual "sense" of things; it wasn't really seeing, but it worked. We put some distance between us and the pirates.

A single dim floodlight comes into view two hundred yards ahead of us. It marks the main ghat and the celebration area like a blurred star low on the horizon. It's a very welcome sight. "I think we're going to make it," I tell Liz. Ten minutes later we have reached



another plateau. "Do you smell smoke?" I ask. "Like something smoldering?"

We've made it to the burning ghats, the cremation grounds. The fires are out now but a few hot coals still glow. There are no bodies burning. Death has taken the night off. A dog appears, a black snarling shape ten yards away. Now others join it. They begin to circle, some daring to take short cuts closer in and snap at us. "I hate to sound paranoid," I begin, "but we're surrounded by a vicious pack of wild dogs who live on human flesh and bones."

"They're probably unhappy because the doggie diner is closed," she tells me. "Don't worry, I'm sure they hate raw meat."

"I'm serious! We're in their territory, we're the wrong color, and I'm sure we don't smell right. That big black one over there is thinking about going for my throat. I can pick up his thoughts."

"Nonsense," she says. "They're just curious and want to check us out." As she's speaking, "Blackie" makes a pass at me, snapping from less than a foot away. "Nice doggie," she cajoles.

"Nice doggie? We're surrounded by a pack of starving charnel-house curs and you call them nice doggies?"

"It won't help to say bad things about them," she says smugly.

I unsling my backpack and begin to swing it by the straps. It weighs a good ten pounds or more. The dogs back off a little to recalculate the odds, then come around behind us, following until we grope our way out of the area. We fumble down a flight of steps, then hit another flat space. To my right the rear of an apartment building forms a towering wall. Light is coming from an open window near the top, music floats down from the opening and across the ghats like incense on the night air. I have

never heard a sound exactly like it, best described as Hindu jazz. I can discern some tabla drums, and someone plays a sax, perhaps the Frenchman we had seen the day before. A group is chanting a mantra with the sound in jazzy cadences:

Siva Sivana Namō
Om Namō Siva Siva
Siva Siva Shamboo
Om Namō Siva . . .

Someone in the group begins to blow a conch shell, a long, unending, plaintive wail. We stop to listen in the darkness.

"There's something moving over here," Elizabeth is pointing.

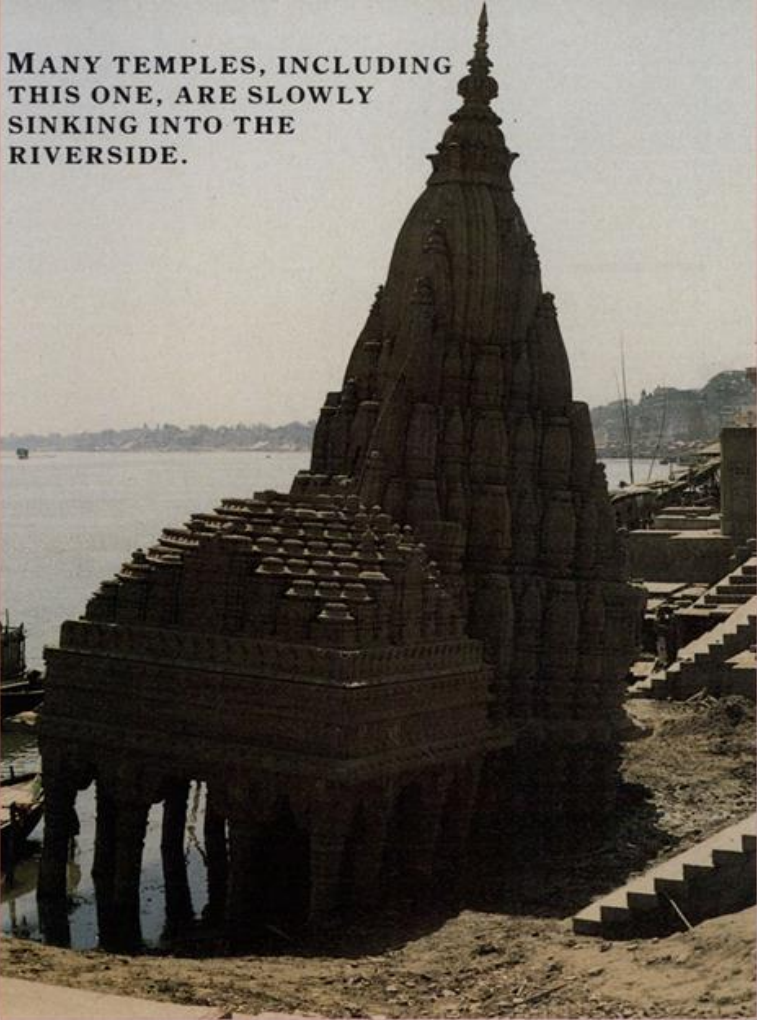
It is a shuffling, scraping sort of noise. "It's probably rats," I tell her. But a shape takes form. It's human, an old hunchback dragging one leg. "Quasimodo, no less." He stops and leans against the wall to watch us. I suggest we keep moving. Another 15 minutes walking brings us to the main ghats and the safety of the floodlight. Now we climb the final steps that lead up to the city's edge.

The main street of the marketplace begins at this point. There is still a crowd of several thousand men in the narrow avenue, a Hindu Mardi Gras complete with people holding up papier-mâché masks depicting animals and ghosts. Most are high on bhang and are giving the celebration all the energy they have left. We must pass through the crowd and get back to the rickshaws. Hopefully, they will be waiting at the usual corner several blocks away.

We make our way into the masses holding tightly to each other. If separated, there is little hope of finding one another in the frenzied crowd. We are so tightly packed that wavelike motions move us like an ocean current. There is no resisting. We go with the flow and hope to find a current that will take us to our destination. "Over there," I shout above the noise. I see a stream of people heading toward the area we want to get to.

We have almost joined them, but something has happened. It's as if a small explosion has occurred in front of us and is sending shock waves from its center.

MANY TEMPLES, INCLUDING THIS ONE, ARE SLOWLY SINKING INTO THE RIVERSIDE.



BRUCE DODSON

We are pushed backwards toward the curb. I see a man fly up into the air several feet above the crowd. He looks as if he is screaming, but there's so much noise I can't be sure.

We are pushed back toward an open sewer four or five feet wide, God knows how deep. We teeter on the edge, Liz clinging to my arm. I grab hold of a man in front of me just as a bullock crashes through the crowd. The bull scatters people like so many ten-pins on a bowling alley. He is pissed, tired of the party, and in a hurry to get back home on the ghats. No person blocks his way for long.

I hang on desperately until he passes. Now the man I'm holding on to turns as I release my grip on him. "Bull!" he grins. "Ha ha."

"Bull," I agree with him. Thank God we haven't gone into the shit canal. A line of drum and bugle players pass by. We fall in behind and slowly make our way to the rickshaws.

THE TRAIN TO BENARES.



BRUCE DODSON



A half hour later we are back at the Hotel de Paris. "I have never been so glad to be back home in all my life," I tell Liz, laughing. "But now that we're safe, I wish that we were back there in the middle of it all again!"

"That's life," she tells me.

I agree.



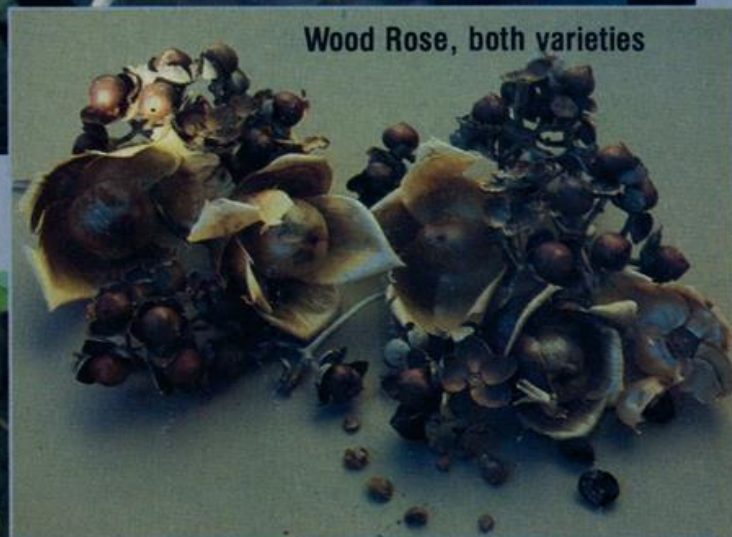
BRUCE DODSON

PSYCHIC BOTANICALS

by
MEZ MERAI

When potheads think of Hawaii, they think of marijuana, where the best in the world is grown. And anyone who has ever paid a visit to those magic isles knows of mind-expanding mushrooms in Holy Cow pastures. A few travelers are even hip to Kava Kava and its methysticum properties, since it's the drug of choice of native Hawaiians. Even Baby Hawaiian Wood Rose, which came into fame in the mid '60 as the most potent member of the morning-glory family, is fairly well known.

(ABOVE) Baby Hawaiian Wood Rose
(BELOW) Hindoo Wood Rose fruiting





Coke leaf with flower (Erythroxylon coca)



Coleus

But few travelers know that the Sensitive Plant, which is apt to prick their feet while they are out collecting mushrooms in the pasture, contains DMT in its roots. Or that those toads cooling themselves in the wet cow pies are chock full of bufotenin, a near relative of psilocybin.

There are so many psycho-active plants in Hawaii one gets tired of trying them all. Give my mind a rest, will ya.

For instance, the islands are full of snowblind folks who will snort anything that faintly resembles cocaine. But almost none of them are aware of the presence of Erythroxylon coca, the coca shrub, on the islands. Cocoa, the chocolate tree, thrives here also,

and both it and coca produce an alkaloid that gets you off. Nice being able to forage for what you need.

Datura grows in herbaceous and tree form in gardens all over the islands as an ornamental, its big flowers drooping down all around. The tree form is common here, and anyone who has ever read Carlos Castaneda knows what it is all about.

Then there is the other Polynesian regular, betel nut. Growing on the Areca Catechu palm, this nut is considered a delicacy drug throughout the orient. It is cracked and wrapped in a pepper leaf (Piper betel) along with a smear of lime and a bit of some sweet condiment, and chewed. It suppresses the

appetite, gives oral satisfaction, and gets one mildly stoned and energized in the process. During a stay in Java, I personally enjoyed chewing betel wrapped in coca leaf and didn't notice any appreciable difference between it and betel I've chewed elsewhere wrapped in pepper leaf.

The juice of the mango definitely gets you stoned. Mainland skeptics will probably doubt that truth, but when mango season rolls around, it draws almost the same amount of interest here as the coming of pakalolo harvest. The trancelike state one achieves when eating mango is quite similar to the euphoric high one attains during an especially good session of cunnilingus.

Durian fruits here as well. The literature says that 14 degrees north is its furthest northerly fruiting; but sure enough, it fruits here. And as any Malay can tell you, not only will it get you gazongo, but it will charge up your sexual energy as well.

Coleus floods gardens with color all over Hawaii, from the southern tip of the Big Island to the "end of the road" in Kauai. Now as any Shaman knows, coleus will bring the moon to you and allow you to divine the secrets of the universe. A little tea will do you.

The more time you spend in Hawaii, the more you realize what a garden of psychic delights abound all around you. It's almost boring. Stoned again and again and again. . . I've come to prefer "da kine" (female sense buds) as my regular drug of choice, along with coffee (which grows wild all over the place). There's nothing more relaxing than a good cup of coffee and a good smoke.

Oh, I do occasional mushroom journeys, and I'm right there up in the mango trees with the rest of the moaks. But I'm not much on coleus or toads, and Long Don Juan and Carlos can have the datura forest all to themselves. But pardon me while I go for one of the nicest highs of all on these islands, surf's up!

Sacred Pakalolo Patch Altar

PHOTOGRAPHS BY
MEZ MERAI



Sensitive Plant
(roots contain DMT)



Betel Nut Seeds



Gregarious Psilocybe

Kava Kava



(Panaeolus sphinctrinus)



Datura Sanguinea



©1987. BY HOLMSTROM + MacSPADE - WRITTEN BY AID MacSPADE, DRAWN BY JOHN HOLMSTROM

MAN, THERE AIN'T NOTHING LIKE A NICE, STICKY, GOOEY, SMELLY, RIPE BUD WITH NO SEEDS!



I'LL JUST BREAK OFF A PIECE TO PRIME THE PUMP - THEN WE'LL SMOKE IT TO THE BONE!



SONOMO MITCHUM! I CAN'T GET THIS SHIT OFF MY PAW!



MAN! THIS STUFF IS STICKIER THAN A PIECE OF CHEWED-UP BUBBLEGUM! GOOD THING IT AIN'T FLYPAPER!

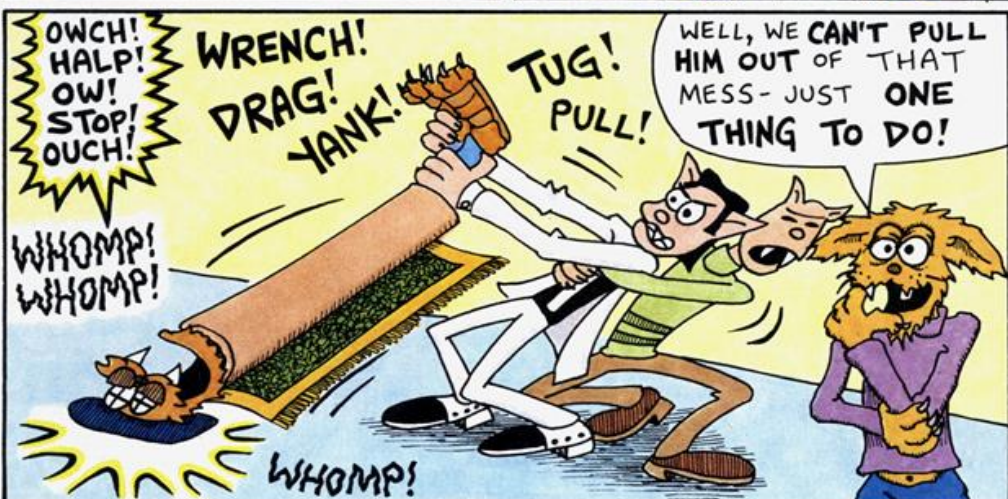
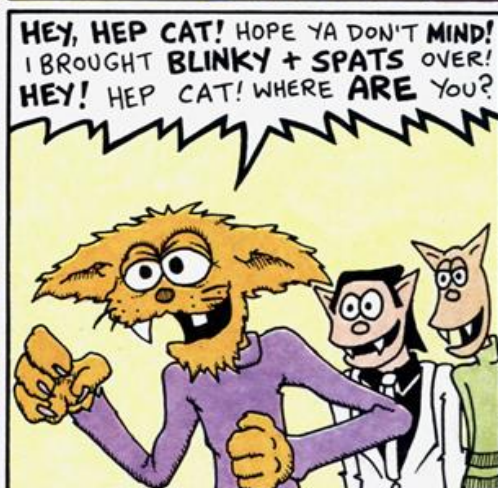
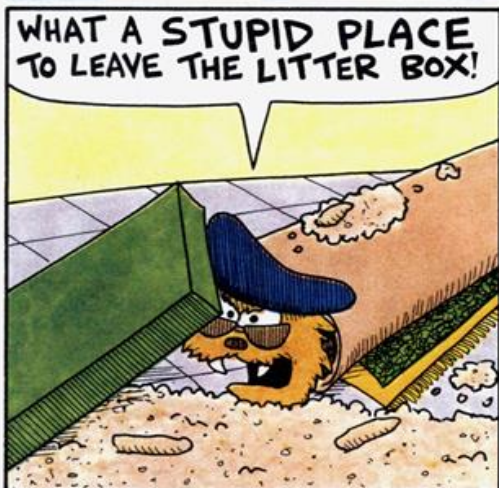


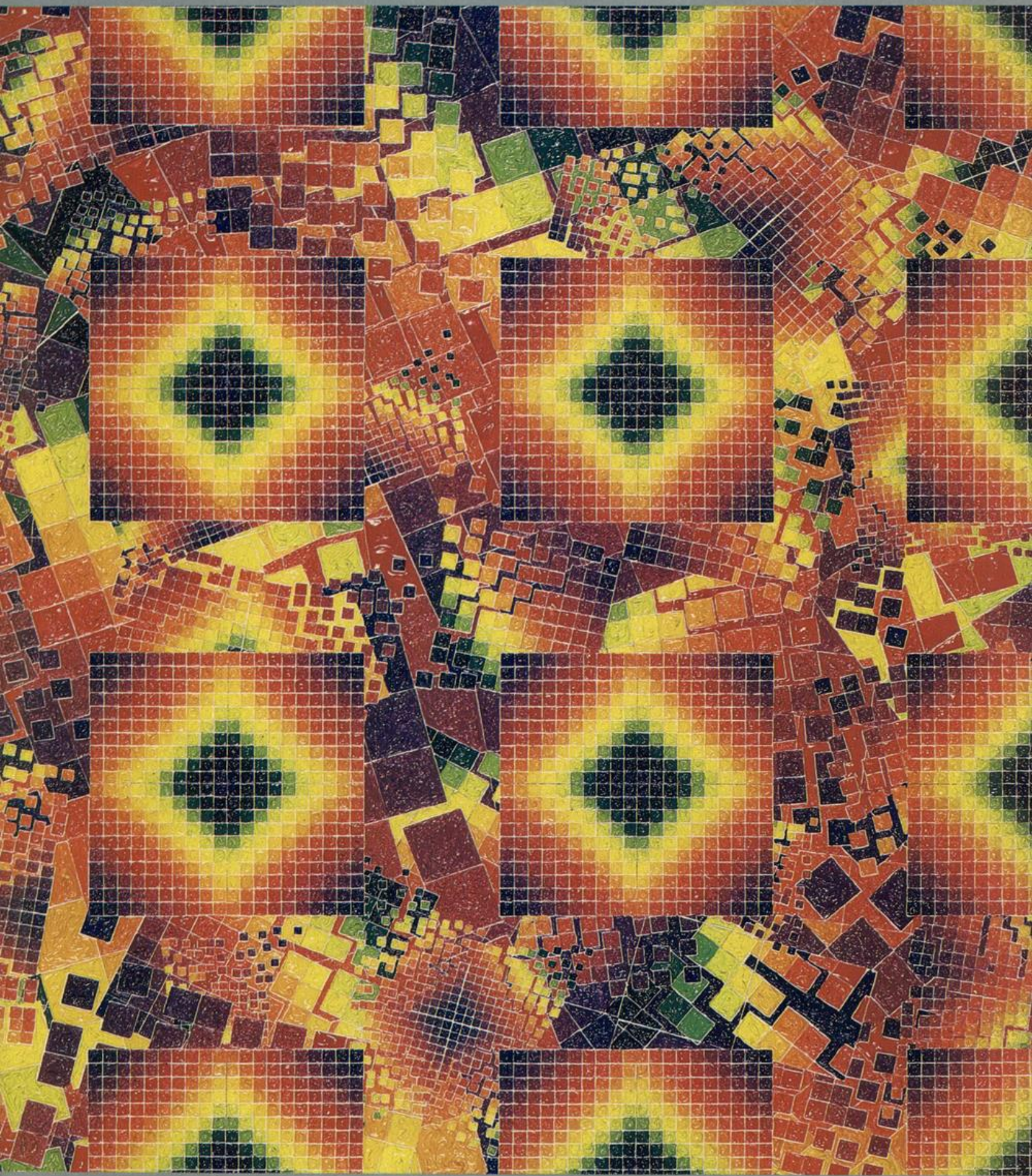
OH, MAN! NOW MY FOOT IS STUCK!

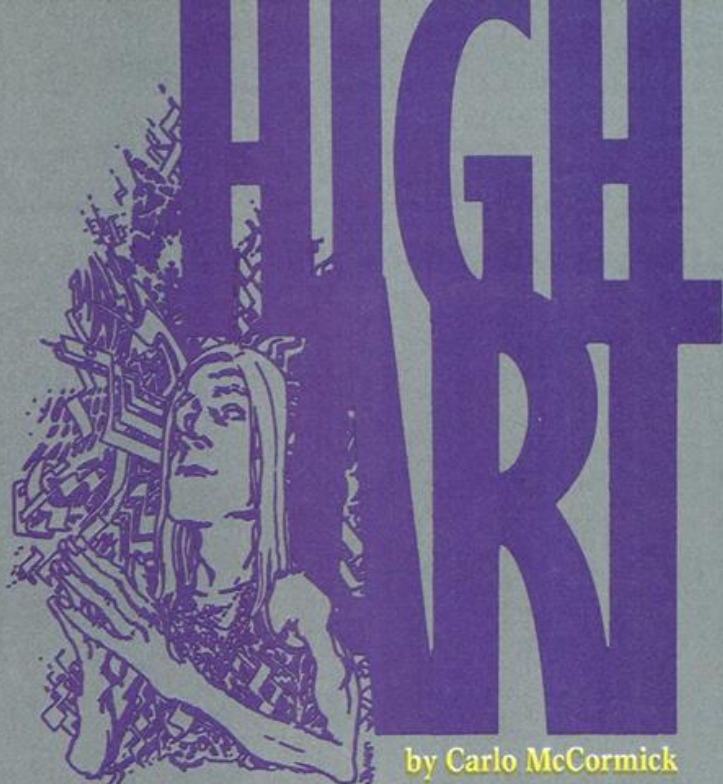


YEOW! THIS IS EMBARRASSING!







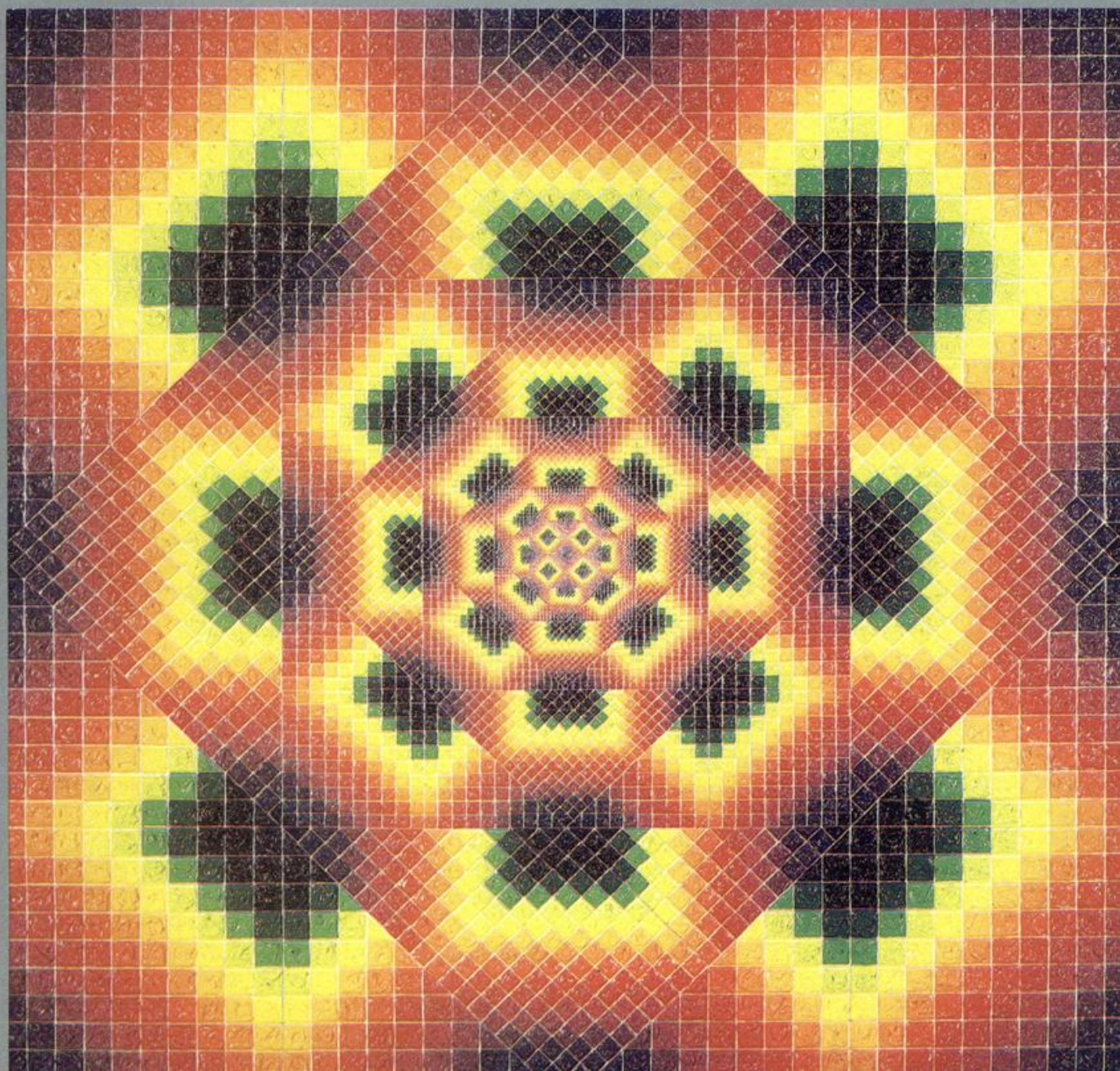


by Carlo McCormick

Last month, this column looked at the psychedelically inspired paintings of Alex Grey. The paintings of Allyson Grey, his wife, also express the cosmic experiences they share.

The Greys described their first intense transmutation of the soul to **HIGH TIMES**: "We first tripped together in 1976, lying in bed wearing mindfolds [a blindfold/earplug sensory deprivation device constructed by the Greys to enhance the awareness of acid visions—Ed.] when we began accelerating into space out of our bodies. Talking about it later, we found that we had experienced the same sensation of being transported into an infinite electrical gridwork of fountains and drains. In this space we saw everybody, all beings and all things contained as cells in the network. We were able to overcome the problem of the one and the many. We were significant as the one individual in the whole flow of love energy. We have since found this truth described by others who have undergone enlightenment in near-death experience, as well as in the jewel net of India that is in Buddhist and Hindu literature, in which the interconnectedness of all things is in the infinite facets of its reflection of all other jewels." ●

**TUNNEL BY ALLYSON GREY
1986 OIL ON BOARD**





B

E

A

T

MONDO BONGO

1958: Young woman in a club snaps her fingers and recites, "We cough blood on this earth. Now there's a race for space—we can cough blood on the moon soon. Tomorrow is dragville, cats. Tomorrow is a king-size drag. Turn you eyes inside out and dig the vacuum. Tomorrow. Drag." **HIGH SCHOOL CONFIDENTIAL!** (Republic Home Video) is remembered for its theme song (by Jerry Lee Lewis), Mamie Van Doren, and the surprising reefer and junk dealer plot.

It was also the first feature film with beatniks. Producer Albert Zugsmith usually gets the credit, but the beat poetry from John Barrymore, Jr.'s incredible jive history lesson was written by real life beat/actor Mel Wells, who had a small role in the movie but is best known as the original Gravis Mushnik in **LITTLE SHOP OF HORRORS**.

● A guide to beat 'sploitation flicks ●

BY MICHAEL J. WELDON

PAINTING
BY JOSH



Many more beatniks showed up in movies during the next few years. Naturally, most of them were seen as criminals, self-destructive idiots, or both. Often, they were just around for topical, colorful background. Unfortunately, due to some about-to-be-revealed conspiracy, none of these movies are on videotape and they never seem to show up on tv anymore. I recently showed **THE BLOODY BROOD** (in Cleveland) and **BEAT GIRL**

(In New York). Audiences love these movies and the jive talk in them, but you've got to look hard to find them. Here is a brief guide to beatnik-sploitation movies.

Early in '59 a movie with beatnik offshoot characters was released: **GIDGET**, starring Sandra Dee. Cliff Robertson, now driving America's tv watchers to acts of violence with his endless AT&T commercials, was Kahoona. James Dean was Moondoggie. (This led to more beach movies and all that clean-cut Frankie and Annette nonsense.) Two months later, director Frank Capra, of all people, exposed mainstream American moviegoers to the new phenomenon with a likable female beatnik named Shirl—played by the future Morticia, Carolyn Jones—in **HOLE IN THE HEAD**. Jones later complained that the role was so popular that she was typecast as kookie.

In July, Albert Zugsmith was back, exploiting the whole scene in **BEAT GENERATION**. It featured Mamie and Jackie Coogan from **HIGH SCHOOL**... and was actually a pretty good cops-after-a-wealthy-rapist story. Ray Danton, now a tv director, was the "aspirin kid," eventually caught by the confused cop Steve Cochran. Much of the action took place at the coffee shop where West Coast horror movie hostess and **PLAN NINE FROM OUTER SPACE** star Vampira got to

FOR THOSE WHO
THINK YOUNG—
Nancy Sinatra and
Bob Denver



UA

recite the poetry. Two other '59 films used beatniks, coffee houses, and abstract sculpture as hiding places for criminals. **THE REBEL SET** was made by the man who directed **I WAS A TEENAGE WEREWOLF**, and **THE BLOODY BROOD** (from Canada) starred Peter Falk in his first major role, as Nico, a drug dealer, who talks a jaded friend (who directs tv commercials) into helping him kill a delivery boy for kicks by inviting the poor kid to a beat party and giving him a hamburger—with ground glass in it. Most beatniks were shown groovin' in the Bay Area (a *San Francisco Chronicle* writer is credited with creating the term in '58), but England had its own coffee bars, and Cliff Richards got his career off the ground playing Bongo Herbert in **EXPRESSO BONGO**, backed by the Shadows and managed by Laurence Harvey.

Beatnik awareness got a major boost when one showed up on prime time tv in September, '59. Bob Denver was Maynard G. Krebs on "**THE MANY LOVES OF DOBIE GILLIS**," which ran for four years. Kids around the country learned to look frightened and yell "Work?!" whenever their parents wanted anything done around the house. The public was really hyped for beatniks after Maynard, and good old Roger Corman had just the right movie in release within a month of the Gillis debut. **A BUCKET OF BLOOD** is a great comedy; written by Chuck Griffith, it stars Dick Miller as Walter Paisley, a Jerry Lewis-type busboy in a coffee house who becomes the hippest guy around after accidentally killing his cat (and later several people), covering them with clay, and becoming a sculptor. A beatnik girl is so impressed that she gives him a bag of

heroin. The same director/writer team made the similar **LITTLE SHOP OF HORRORS** several months later, using the same jazz score by Fred Katz (now available on Rhino records).

With all the attention **SHOP** has gotten because of the recent play and the remake of the movie, it's a shame more people can't see **BUCKET**. It's even better, and it includes the ultimate, the funniest poetry reading scene ever.

By 1960 everybody knew about beatniks. Comedians and cartoonists used them for subjects. Jay and the Hurricanes had a musical hit with "Beatnik Fly" and Paul Revere and The Raiders had a regional hit with "Beatnik Sticks." Jerry Lewis, as an alien named Kreton, met a dancing beatnik girl in **VISIT TO A SMALL PLANET**, and England turned out **BEAT GIRL** (a.k.a. **WILD FOR KICKS**), with bored kids hanging out in a



**BEAT
GENERATION—**
Jackie Coogan
Steve Cochran

M.G.M.

**WILD FOR KICKS/
BEAT GIRL—**
Oliver Reed and
Gillian Hills



VICTORIA FILMS, INC.

club built in a cave and playing chicken on railroad tracks. One of the kids was Oliver Reed and the music was by The John Barry Seven. **BEAT GIRL** was the first soundtrack album released in England and has recently been re-released there by Elvis Costello's record company. The pre-James Bond, John Barry

theme song sounds amazingly like "Rock Lobster" by The B52s without the vocals.

In the year's one serious attempt at looking at the beat generation, **THE SUBTERRANEANS** (based loosely on Kerouac's book),

George Peppard (years before teaming with Mr. T)

played "the poet saint of San Francisco." Gerry Mulligan provided music along with Shelly Manne and Art Farmer. A (now rare) soundtrack was issued. Other beats in the not-too-popular movie were Leslie Caron and Roddy McDowell, who sleeps standing up. In ads,



In Billy Wilder's comedy **ONE TWO THREE** ('61), Horst Buckholtz was a communist beatnik. Oliver Reed returned as a beat in **THE PARTY'S OVER** ('62). **THE GREENWICH VILLAGE STORY**

was about a beat writer whose girlfriend has an abortion, so it was for "adults only." One of the stars was **ROCKY** director John Avildsen. In '63 beatniks were strictly comedy relief. They showed up in **FOR LOVE OR MONEY** (with Kirk Douglas), **MY SIX LOVES** (with Cliff Robertson and Debbie Reynolds), and **MOUSE ON THE MOON** (with Margaret Rutherford), and Bob Denver, just after Maynard was retired,

played one again in **TAKE HER SHE'S MINE** (with James Stewart and Sandra Dee). By '64 everybody was busy exploiting the British musical "invasion" but beatniks showed up in **DEAR HEART** (with Glenn Ford), **SATURDAY NIGHT OUT** (from England), and best of all, in the low budget horror film (filmed in Long Island), **THE FLESH EATERS**. The beatnik

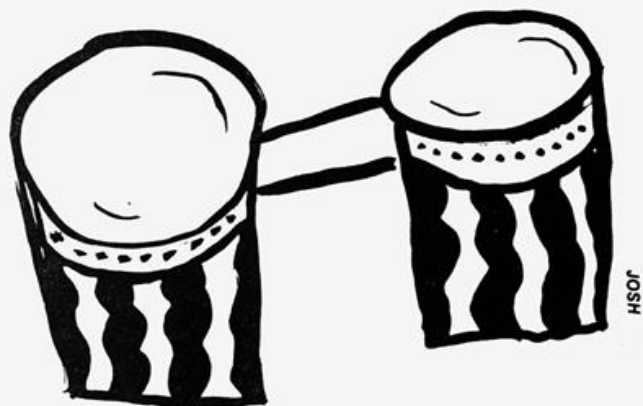
Peppard's character says, "Why can't I love two people, and three people and four? I want to love everyone!" Most moviegoers were more comfortable with crime and comedy. Nobody, however, was ever comfortable watching **HYPNOTIC EYE**, an ultimate experience in bad taste, filmed in "Hypnovision" and featuring beautiful women mutilating their faces, and yes, beatniks. More gangster/beats were in **THE BEATNICKS**, directed by famous announcer Paul Frees.

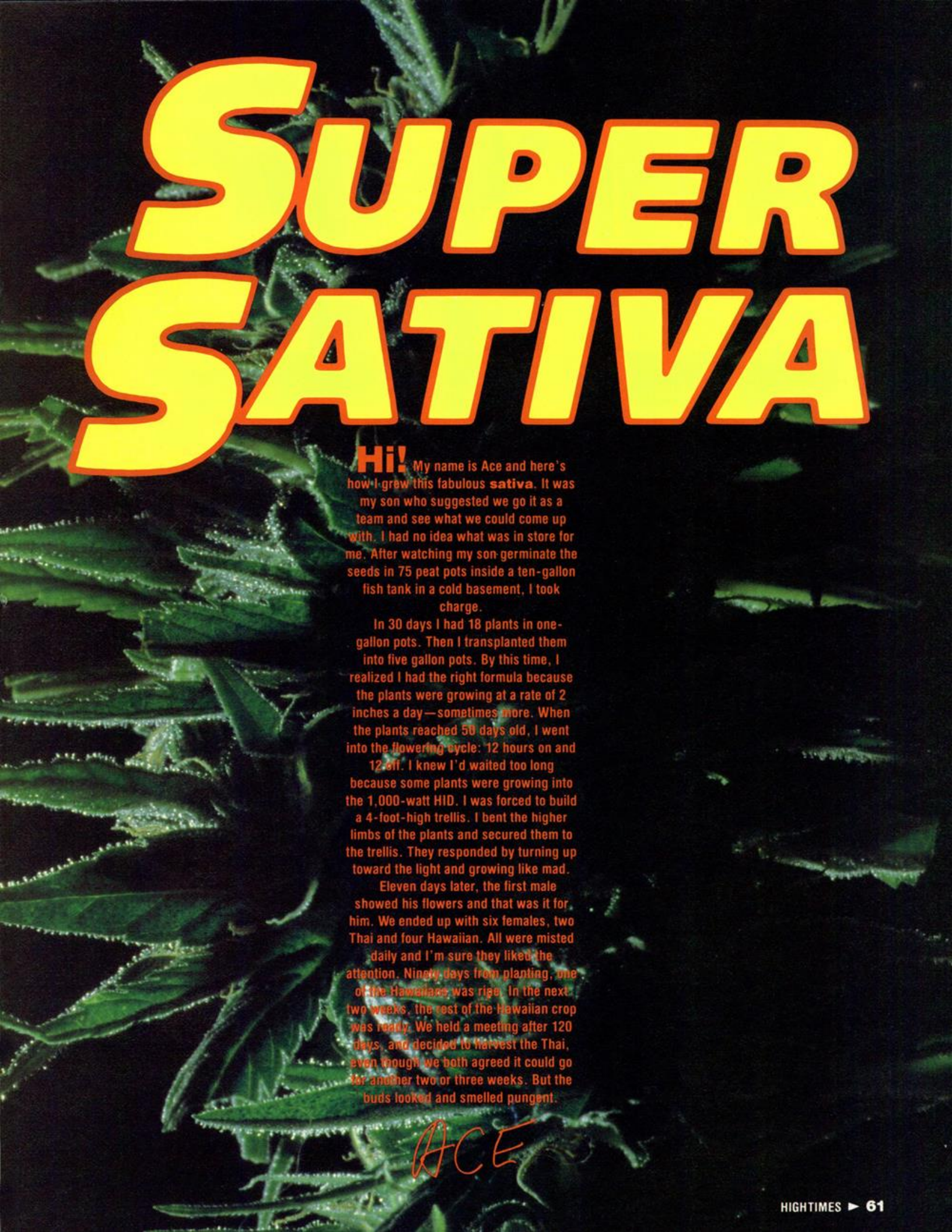


was Omar, and his flesh was eaten right off. Bob Denver played his last pre-Gilligan beat character in **FOR THOSE WHO THINK YOUNG** in '64.

In '65 John Boorman made one of the greatest rock movies of all time, **HAVING A WILD WEEKEND** (a.k.a. **CATCH US IF YOU CAN**), featuring the Dave Clark Five, who are never seen performing a song! During the group's often downbeat adventures trying to escape the over-commercialized world, they encounter drug-addicted hippies, although they weren't called that yet.

(Actually, "hippie" was originally used as a derisive term by "beatniks" for college kids who hung around trying to act cool.) By '67, hippie was the media catch phrase, and beatnik seemed like a forgotten word from the '50s. Only one movie star was hep enough to include bongo-playing, goateed, yoga-position beatniks in 1967: the movie was **EASY COME EASY GO**, the star was Elvis. ●





SUPER SATIVA

Hi! My name is Ace and here's how I grew this fabulous **sativa**. It was my son who suggested we go it as a team and see what we could come up with. I had no idea what was in store for me. After watching my son germinate the seeds in 75 peat pots inside a ten-gallon fish tank in a cold basement, I took charge.

In 30 days I had 18 plants in one-gallon pots. Then I transplanted them into five gallon pots. By this time, I realized I had the right formula because the plants were growing at a rate of 2 inches a day—sometimes more. When the plants reached 50 days old, I went into the flowering cycle: 12 hours on and 12 off. I knew I'd waited too long because some plants were growing into the 1,000-watt HID. I was forced to build a 4-foot-high trellis. I bent the higher limbs of the plants and secured them to the trellis. They responded by turning up toward the light and growing like mad.

Eleven days later, the first male showed his flowers and that was it for him. We ended up with six females, two Thai and four Hawaiian. All were misted daily and I'm sure they liked the attention. Ninety days from planting, one of the Hawaiians was ripe. In the next two weeks, the rest of the Hawaiian crop was ready. We held a meeting after 120 days, and decided to harvest the Thai, even though we both agreed it could go for another two or three weeks. But the buds looked and smelled pungent.

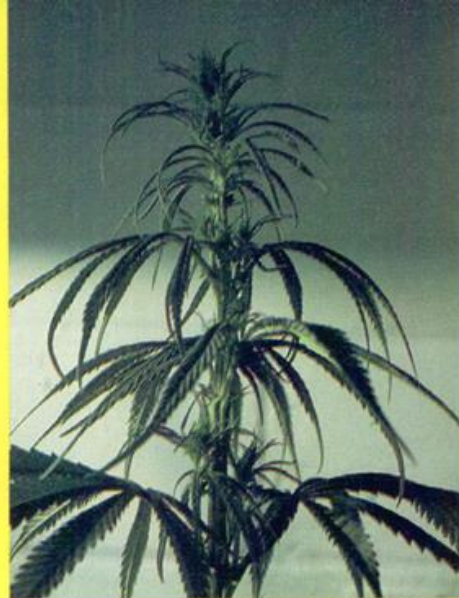
ACE



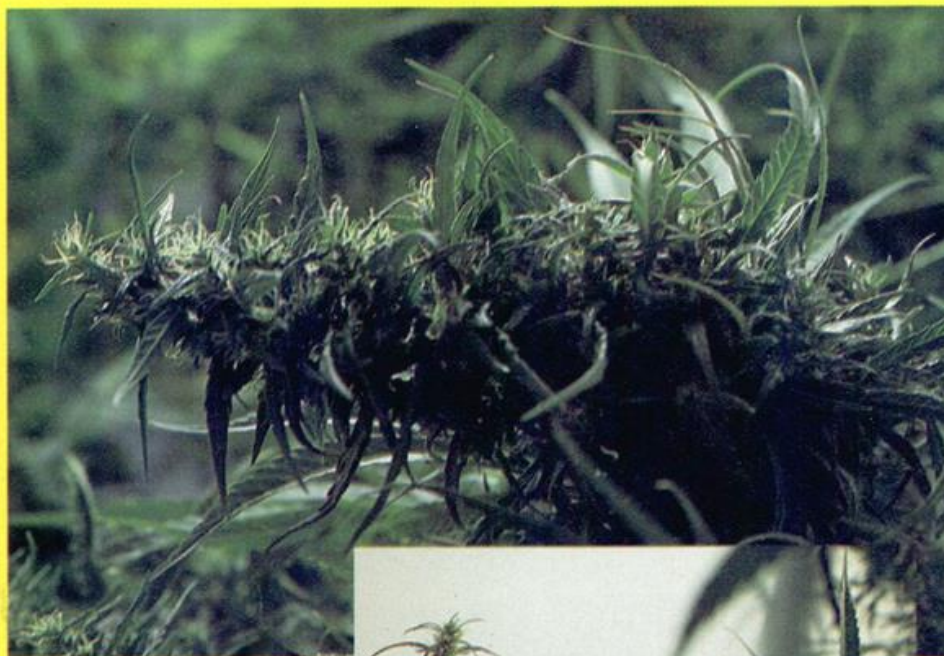
1 Let's take a peek inside the grow room door.



2 The male buds began to emerge on the ninth day of the flowering cycle.



3 Here's a more complete shot of the first male to identify himself.



7 & 8 Several colas had to be bent down over the trellis.



9 My fan broke down and I turned on a work light to fix it. Unfortunately, this occurred during the dark cycle and a few plants were ruined (see detail right).

ACE's TIPS for first timers:

Seedlings were started on Upstart B1. After two weeks changed to Peters Professional 20-20-20 for vegetative growth. At 50 days changed to Hydrofarm Blossom 10-30-18. Last week water only.

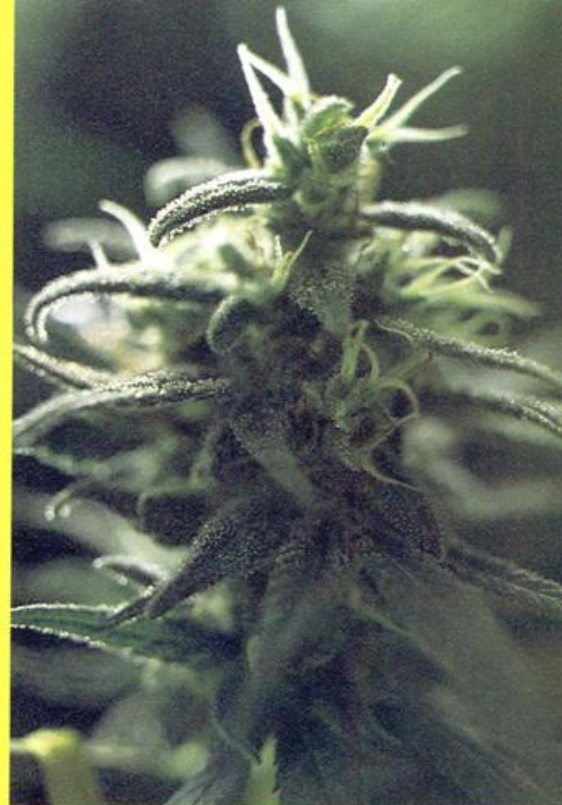
Don't attempt growing indoors without a good vent fan. My room was 4' x 9' x 7' and I used an 8" fan with two 8" square air vents.



4 The females showed up a few days later.



5 After waiting too long to shift into the flowering cycle, I was forced to install a trellis.



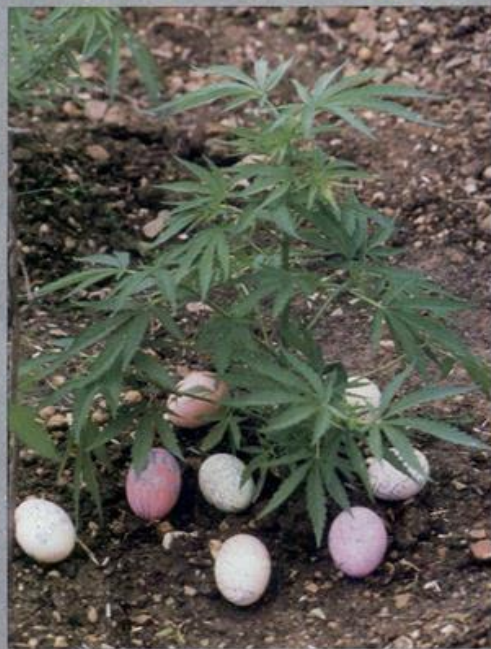
6 I can't believe I grew this my first time.



10 It blew my mind!
ALL PHOTOGRAPHS BY ACE

11 Harvest Time.
Hawaiian 8 oz bud 3 oz shake
Thai 5 oz bud 3 oz shake

PLANT OF THE MONTH



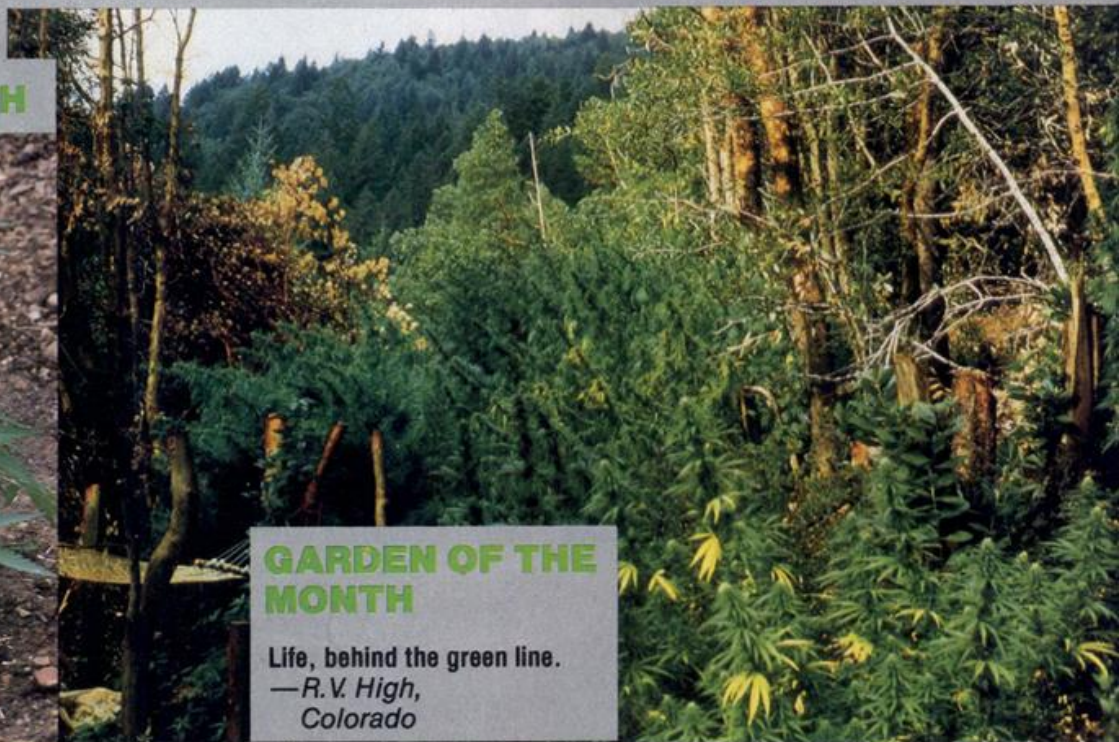
Happy Easter! Happy Fall!
—Anonymous,
New Orleans, Louisiana

BUD OF THE MONTH



Energy at its best.
—R.V. High,
Colorado

Congrats, R. V., on a
double crown.



GARDEN OF THE MONTH

Life, behind the green line.
—R.V. High,
Colorado

ASKED

BY ED ROSENTHAL

Dear Ed.

My new grow-room measures 9' x 12' with an 8½' ceiling. I will be using a CO₂ system along with an oscillating fan to move the air around the plants. I plan on using 1000 watt MH lamps. What is the maximum number of plants (*sativas*) that can be grown in this room? How many lamps will I need for this space? With the lamps the room will get pretty hot during the summer. What can I do to cool the room? It has a window which is boarded up.

—Anonymous
U.S.A.

Your room has a total of 108 square feet. If you used a single 1000 watt lamp, you would be supplying an input of a little less than 10 watts per square foot. For rapid growth the plants should be given a minimum of 15 watts electrical input from a high pressure sodium (HPS) lamp which provides the greatest amount of light

usable by the plant per energy unit. During flowering they would do better with 20 watts per square foot. Equatorial *sativas* require more light—up to 30 watts per square foot. HPS lamps are not as effective during germination or cloning as cool white and/or warm white fluorescents or MH lamps.

The number of plants depends on how big you let them grow. Most novice growers use 1-3 square feet of space per plant for *sativas*.

Try using the window in some way to cool the room. If it is open to an unobstructed area with little chance of detection, an exhaust fan can be installed as long as there is a blind, so that no one can see in from any angle. If the window is in a congested area where odor might be a threat to security, you could precipitate the odor-causing particles floating in the air with a negative ion generator (ionizer) in the room, or in the exhaust air by using an electronic precipitator.

Dear Ed,

I have a spare bedroom about 10' x 10' that would be perfect, location-wise, to start a garden.

Is there any practical way for me to operate a grow room even though I am away from home 30-35 days at a time? I work on a riverboat and my schedule is 30 days on and 15 days off. I'm a bachelor and don't wish for anybody to know about my garden. There's a possibility of a schedule change in the near future, to 30 days on and 30 days off. Would that help matters at all? Any advice would be greatly appreciated.

—D.P.

Kentucky

Yes, a long term, no-care system can be installed. However, you are dealing with two potentially dangerous things: electricity and water. If either delivery system malfunctions, it could spell disaster. For that reason, everything in the garden should be designed and constructed with both safety and reliability in mind. The term KISS—Keep It Simple, Stupid—is appropriate.

Presuming that you would be using either two 1000 watt or four to five 400-watt HPS lamps, you could set them about 2 or 3 feet higher than you estimate the plants will grow in a 30-day period. A ballast started delay, available from some light companies, protects the light systems from burnout due to temporary power outages of all kinds.

The water system has to be reliable enough so that there are no leaks and there is no possibility of flooding. For that reason, a system with as few moving parts as possible should be used. There are a number of alternatives, but because of the long period between visits, either a very large reservoir is needed, or water must be added to the system periodically from the tap. During the period of most rapid growth, the room will use up to 15 gallons of water a day.

Here are three suitable water delivery systems:

A non-return drip emitter system hooked to the tap with a fertilizer distributor attached. A valve is opened periodically by timer. The overflow can be pumped out with a sump pump if there is no drain.

A wick system using containers sitting over a reservoir. The 4 and 5 foot diameter, molded plastic kiddie pools make ideal reservoirs for this system. A frame for holding the pots is constructed around each pool.

A wick system attached to the tap with a float valve to regulate the water level in the reservoir.

Dear Ed,

I have a plant that has had its top clipped off on three different occasions. Recently I found that the culprit was a crayfish (crawdad). Is this common and what can I do about it?

—Puzzled

Meigs County,
Ohio

Never heard of it before. Put a cage around the plant so the critter cannot get to it?

Dear Ed,

I was somewhat puzzled after I read where you responded to a reader that using water that had been softened by salt was harmful to his plants. In another article you told a reader to use Epsom salts to make up for a magnesium deficiency. Doesn't Epsom salts also contain chlorides? If not, would it be a good idea to use it on a daily basis, or only when needed?

I too have real hard water and have been using water that has been softened by salt. Would it be better to use natural spring water (there's one about 10 miles from where I live) or my hard tap water?

Also, I have a 1000-watt MH and a 1000-watt HPS in an 84 square foot room. Would it be better to use both at the same time or use the MH to grow and the HPS to flower?

—Santa in North Pole

Fairbanks, Alaska

Epsom salts, or magnesium sulfate, is $MgSO_4$. It is composed of 1 atom each of magnesium and sulfur, and four atoms of oxygen, with no chlorine. It is best used occasionally in conventional mixes, or when there is the slightest indication of deficiency. In hydroponic programs, it should be added only if there is a lack of magnesium in the nutrient mix or if there is indication of a deficiency.

I'd hate to recommend that you start hauling water to your garden. If you have nutrient problems caused by your water, however, something must be done. I suggest that you buy some sort of water purifier such as a steam distiller or reverse osmosis water cleaner.

When the plants are small they can be placed fairly close together so that only one light is required to illuminate them. As they grow and are spread out while still in vegetative growth, they could grow well under one light in a highly reflective room. However, they would grow faster and denser if both lights were used. When a single lamp is used, use the MH during germination or cloning and the HPS thereafter. During flowering the plants should definitely be illuminated with both lamps.

Dear Ed,

I currently run a grow system with a 400-watt metal halide (MH) lamp, a CO_2 -enriched environment, and a hydroponic medium. My room size is 8 x 6 x 8 feet.

I have been thinking about adding a 400-watt high-pressure sodium (HPS) lamp. My problem is electrical costs. Should I run the lamp during vegetative as well as flowering? Would the increased yield be worth the electricity? What differences in growth would result from either full- or part-time use?

—H.T.

Chester County, Pennsylvania

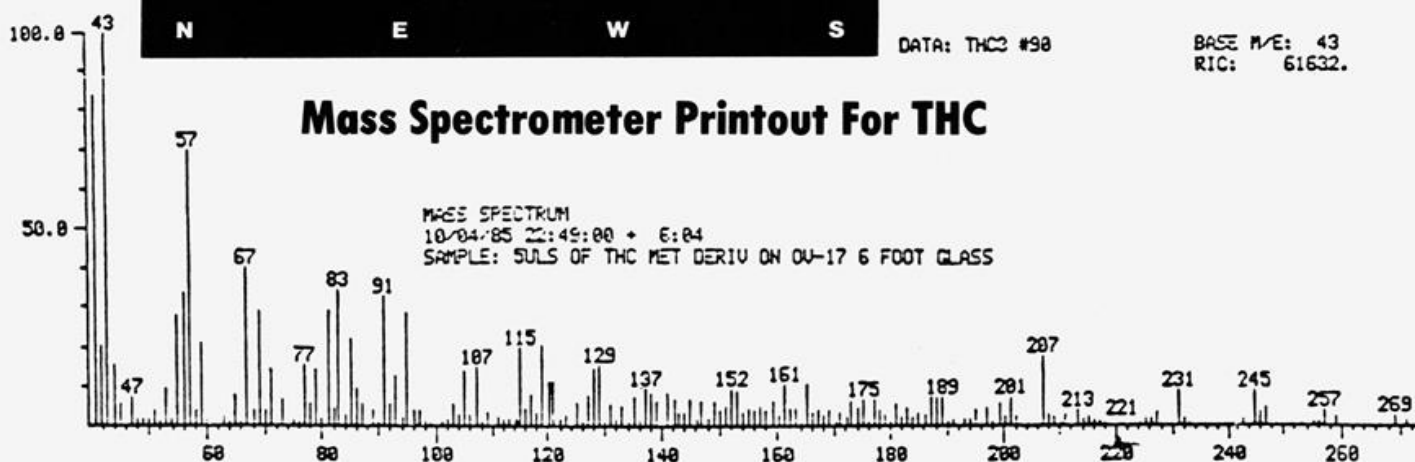
It depends on how your room is set up. Currently, a state-of-the-art grow system is described as a three-part unit. The first unit is a germination/clone section. The space used here is relatively small. Small clones do not need much more than a square inch of space when they are rooting; one-week-old seedlings and rooted cuttings require a little more space. Plants are kept in this space until they are about 8 inches high. For most gardens this area requires only a few square feet. Many growers use fluorescent lights with the clones on a shelf; others set aside a section of the vegetative growth room for the clones.

The second space is the vegetative growth area. This is usually illuminated by MH(s) or a combination of MH(s) and HPS(s). Growers usually use one 1000-watt lamp for each 50 to 100 square feet of space. If the space is not square, or if there is more than one light, most growers use light movers. These tools move the lights so that no part of the plant is constantly in shadow. Some light movers have gotten fairly sophisticated, with the capability to rotate three lamps at once. The plates are kept in this space until they are about 18 inches tall. Each plant is given about a square foot of space, although some growers allow more, some less. Spacing also depends on variety, as some are bushier than others.

The plant's variance from its ideal potential growth rate is determined by the limiting factors in the plant's environment: light, water, CO_2 , and temperature. As long as the plant gets all the water and nutrients that it can use, has an enriched CO_2 environment, and a temperature between 68°F and 85°F, its growth will be in a linear point. A system that delivers more light to the plants will yield plants that grow faster.

The amount of light required by plants at flowering varies quite a bit.

continued on page 68



GCMS IN BRIEF: The *gas chromatograph* vaporizes the THC sample and pushes all its molecules along a tube-column so that they separate into individual molecules. The *mass spectrometer* counts each molecule and the respective number of its ions as they “eleute” from the GC and prints them out on a long “fingerprint” graph, unique to THC (above). It’s really very simple, but tremendously expensive.

MELANIN

continued from page 24
on the 372 ion channel, every single time?

Q. Melanin?

A. Bingo. So anybody who ever lost their job because of a pot positive, even if the immunoassay was “confirmed” by God’s Anointed GC-Mass Spec, they have some lawsuit money due them. Because you can’t *prove*, even with GC-Mass Spec, whether anyone’s ever been near marijuana in their lives. But you *can* prove now, and prove in *court*—thanks to Dr. Jim Woodford, and Brandy Splitless of the United States Air Force—you can prove that GC-Mass Spec, used in the Selected Ion Monitoring mode, *will* confuse melanin for THC. Every fucking time!

Q. But won’t the drug-testing labs just change their GCMS procedures to

eliminate that melanin problem? Just look at the full mass spectrum instead of using Selected Ion Monitoring?

A. Oh, they *have* to do that, now that there’s courtroom proof of all the times they most certainly fucked up, using SIM to determine—quote—“evidence of marijuana use.” It’ll tack another two to four hours of very expensive lab time for each confirmatory assay onto the bill all those employers will have to foot for their asshole Drug Abuse Prevention Programs.

Q. So it’s really the employer getting stung here, huh?

A. Oh, the poor bastards. Those chumps will have to pay extra to their expert drug-policy “consultants” just to explain to them that, “Gee whiz, sir, this wholly-unexpected little technical *problem* has suddenly arisen. Turns out we can’t tell a

druggie from a borderline diabetic after all, because of this melanin stuff. Yes sir, you’ll have to pay extra to the labs from now on to follow these more scrupulous assay procedures. And yes sir, your corporate-liability rates *will* go up, because all those people you already fired for pot will be suing you now for damages, and getting *settlements* too, I’m afraid. Sorry about that, sir. No way I could have seen this coming, even though this Woodford ‘freedom chemist’ was yelling about it four years ago. Who would ever have believed that the Defense Department would have *subpoenaed* him to prove it, under supervision, on *their own* space-age machines? Nothing to be done, I’m afraid, except to pay out more money in the short run. In the *long* run, sir, of course you can always just announce—any time you wish—that your corporate

drug-testing program was such an overwhelming, instant success that there’s no *need* to continue testing your employees, so you’re discontinuing that one little part of the whole antidrug program. But before I give you *that* advice, sir, I have to be sure my final drug-consulting check has cleared at the bank.”

Robbers, But No Cops

Q. You make those consultants sound like Mafia racketeers.

A. They’re racketeers all right, but this is one racket the Mafia hasn’t been smart enough to move into yet, as far as I can see. I wish to hell they *would*, because this whole billion-dollar urinalysis industry is

continued on page 96

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their vengefulness, spending thousands of dollars to wreck havoc on this family because of a marijuana plant.

The cause **NORML** fights for is not just the cause of marijuana. It is the fight against government intrusion into our personal lives. If there is one thing that history shows us, it is that unchecked increases in the power of authorities leads to an abuse of those powers.

That is the reason why our **founding fathers** (no, I don't mean the **contras**!) put so much energy and faith into the **Constitution**.

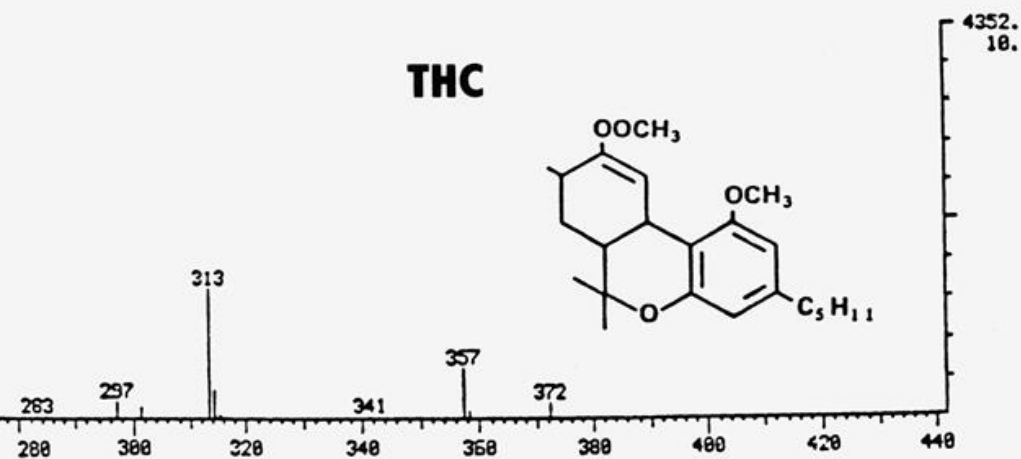
The cases I have mentioned are far from being the most extreme I have heard. They are, unfortunately, all too common. With 450,000 marijuana arrests and millions of urine tests taking place each year, there are countless other such tales being told every day. With our current warlike atmosphere, these abuses of power will inevitably continue to escalate. **They will only be curtailed when you say enough is enough.**

If you'd like to do something about the growth of governmental intrusiveness, your cause is the same as **NORML's**. Please get in contact with us and help us to help you. **NORML** desperately needs people who are willing to distribute free copies of our magazine to the public. Now that spring is here large outdoor gatherings are once again taking place. **NORML** needs volunteers to distribute these magazines at concerts, colleges, county fairs, or to friends. **NORML** needs these people in every state, and we need you now. Please give me a call today so that we can discuss what you can do to change the climate of repression.

Children being urged to turn in their parents to the police and the arrest of adolescents for tobacco are only two results of the Administration's war on us. Certainly the back issues of **HIGH TIMES** have chronicled many other abuses of power in the name of a "war on drugs." How much more is it going to take before you decide to do something about it?

Two new NORML chapters have been created. Connecticut has another chapter, this one in **Manchester**. If you'd like to help them, their address is **Manchester NORML, P.O. Box 509, Manchester, CT 06040-0509.**

Arkansas now has two **NORML** organizations forming. **Little Rock NORML** is planning to publish a newsletter and has formed a legal committee. Attorney Wayne Davis is the group spokesperson and will handle publicity tasks. **L.R. NORML** will work with **N.W. Arkansas NORML**, which is run by Mary Jane Fortune, an Arkansas housewife who has had enough of the current drug hysteria. Her letters to the editor have appeared in many Arkansas newspapers and have stimulated a public debate. She can be reached at **N.W. Arkansas NORML, P.O. Box 194, Fayetteville, AR 72702.**



THE DE-MELANIZER?

The two authentic USAF Brandy Splitless chromatograms on pp 22-23 represent the same urine sample run twice through the same gas chromatography-mass spectrometry unit at the DoD lab in Weisbaden, West Germany, before and after the application of Dr. Woodford's de-melanizer. The central peak in the first chromatogram, crosshatched for attention, represents what Weisbaden's USAF Brandy Splitless machine detected at first in the 372 ion channel of this male serviceperson's urine: about 8 nanograms-per-milliliter of "THC" according to the machine, or of **melanin**, according to Dr. Woodford.

"You know how **racism** is spelled nowadays?" Woodford asks rhetorically. "**RIA-GC-SIM**. The armed services use **RIA** radioimmunoassays to screen people's urine, and then try to confirm any positives with **GC** gas chromatography and **SIM** selected-ion monitoring. And none of these techniques can distinguish between melanin and THC in urine."

Woodford's melanin hypothesis has so profoundly troubled the Councils of the Wise that two years ago Dr. Mahmoud ElSohly at Ole Miss, one of the world's most acclaimed GCMS artists, attempted to shoot it down himself (though not with GCMS). In a letter to the editors of the *Journal of Forensic Toxicology*, Dr. ElSohly described how he ran samples of 5-hydroxy-indoleacetic acid (5-HIAA, one of the metabolites of melanin, which itself is a product of the dietary protein tyramine) through an RIA, and saw no cross-reaction. Or no cross-reaction worth mentioning in the very emphatic opening paragraph of his (non-peer-reviewed) letter, though toward the end of it ElSohly did stipulate to a *little* cross-reaction—enough to give Woodford so much ammunition that nowadays he cites the much-esteemed Mahmoud ElSohly in court as supporting his melanin hypothesis by default.

"Basically, whether a person's white or black, the melanin in their urine is always going to raise a signal in the 372 ion channel of a GCMS machine," Woodford explains to **HIGH TIMES**. "It may not be a very *loud* signal, but when the person's sample is right around the 20-nanogram bottom cutoff level, like this serviceperson's was, then that little bit of melanin noise can be the difference between liberty and the brig, or a job and no job, and a lifetime of stigma as a laboratory-proven drug addict."

Woodford accordingly took to researching the properties of known "de-melanizing agents": chemicals that clinicians routinely use to break down and eradicate the melanin in hospital urine samples, so that the melanin doesn't interfere with their diagnoses of possible diabetes, porphyria, and so on. Ultimately he ended up playing with nitro-ferrocyanide (**WARNING: HORRIBLY POISONOUS**), which cleans up old, cloudy urine quite smartly.

And last July, when Woodford was subpoenaed off to Weisbaden to make or break his melanin hypothesis, he dropped some nitro-ferrocyanide into that serviceperson's "8 ng THC" urine sample, and had it run a second time through Brandy Splitless. To the amazement of Woodford as much as anyone else, his de-melanizer erased the *entire* GCMS peak over the 372 ion channel!

Even Woodford won't go on the record with the obvious conclusion: that if there had really been any THC in that serviceperson's urine sample, the "de-melanizer" erased it right along with the melanin. Woodford does now, however, have an exclusive patent on the use of nitro-ferrocyanide (**WARNING: KILLS CHILDREN AND NON-CHEMISTS DEAD**) to pre-emptively correct certain inherent imprecisions in drug-urinalysis technology.

—D.A.L.

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A S K E D

continued from page 65

However, the more light the plants get, the tighter, larger, and more vigorous the budding. Plants grown under less light tend to have skimpy, loose buds that run up the branch and do not form large clumps.

Plants in the flowering area are given about twice as much space as those in the vegetative section and are very well illuminated, primarily by HPS(s). The plants are kept in the flowering room until maturity, usually 6-8 weeks.


With the small space that you have, a room 8 x 6 x 8 feet, you have several options. One would be to find a separate area for cloning (you could grow all you need under a 4-foot, two-tube fluorescent fixture), and once they are well rooted, to place them in the large room until they are 18 inches tall, the induce flowering. A room of this size (48 square feet) should be lit by either one or two 400-watt lamps during the vegetative growth but definitely by both lights during flowering. The plants will grow an additional 1-1½ feet while flowering.

A second possibility would be to divide the room into two sections, one 8 x 4 feet and the other 8 x 2 feet. The smaller section would be used for clones and vegetative growth and could be illuminated by a single 400-watt MH lamp or four 8-foot fluorescent tubes (HPS light does not seem to be very conducive to rooting).

Another innovative approach to utilizing the space would be to make two 1 x 8-foot shelves, each illuminated by two 8-foot-long fluorescent tubes. Either the lights or the shelves should be moveable so that the plant tops are kept 6-36 inches below the lights. The plants should be allowed a minimum 3-foot-high growing area (the space between the bottom of the tube and the top of the shelf). The remaining larger section, either 8 x 4 feet or 8 x 5 feet (excluding walk spaces) should be lit by one or (preferably) two 400-watt lamps, and would serve only as a flowering room.

Using any one of the grow systems, a second light could be used selectively, during only part of the light cycles throughout both vegetative growth and flowering. For instance, during flowering, a garden with two lights—an MH and a HPS—could be lit for 12 hours with the HPS; to conserve electricity, the MH could be on during only six hours of that cycle. The additional light would be very beneficial to bud formation.

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DRUG

continued from page 36

of the San Francisco ordinance. The law was initially aimed more generally at all off-duty conduct by employees and was partially motivated by a case in which a woman sued IBM for firing her because she dated someone who worked for an IBM competitor. That kind of "corporate overreaching into personal lives" is the focus of the ordinance, says San Francisco Supervisor Bill Maher, sponsor of the ordinance. "Your employer," the supervisor adds, "is not your mother."

Not everyone agrees. United States Attorney Joseph Russoniello has suggested that the ordinance gives the impression that drug use is condoned in San Francisco. Many other law enforcement officials share that belief. But Alan Schlosser, the ACLU attorney in charge of drug-testing issues in Northern California, feels that the ordinance strikes a "good balance" between constitutional rights of employees and legitimate concerns of business.

Whether such a balance actually exists in any given case will be the determining issue for courts deciding the legality of drug testing programs and the constitutionality of drug-testing laws. But it will be some time before courts agree on what constitutes a proper "balance" between constitutional rights and legitimate business interests, and they probably will disagree considerably until the Supreme Court rules on the issue. In the meantime, a variety of legal remedies are available to employees fired or disciplined for refusing to take drug tests. Their availability depends on the law that now exists where the employees work, and on the type of employment.

Government employees have protection normally not available to most private workers. Generally, government employees are entitled to "due process" before they can be fired or disciplined. That means they should be notified in advance of drug-testing programs and consequences of testing positive for drug use. Due process also requires that testing programs be administered in a uniform, indiscriminate way. And it allows government employees an opportunity to refute positive results.

Even employees in the private sector are normally entitled to a fair

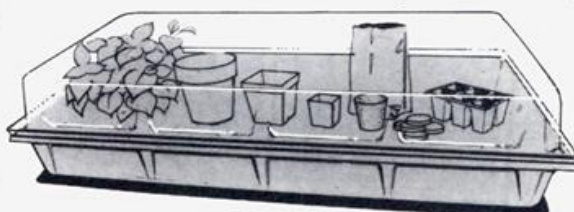
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investigation before any action can be taken against them. Under court-created concepts an employee fired for violating company policies—including using illegal drugs—might prevail in a “wrongful discharge” suit if he proves he did not violate the particular policy and that the employer did not adequately investigate the alleged misconduct before firing him. Other “common law” theories of liability, such as defamation and infliction of emotional distress, may be available to employees wrongfully accused of drug use.

Employees who do have drug-dependency problems may have legal remedies available to them as well. Federal laws aimed at preventing discrimination against the physically disabled have been held to apply to persons suffering from drug or alcohol addiction. Under these laws an addicted employee usually may not be fired because of the addiction. Instead, the employer must “reasonably accommodate” him; if the employee is still unable to perform his job after being accommodated, he may be subjected to termination. Courts have yet to sufficiently explain what the employer must do to accommodate the employee’s dependency, and the question of which employers will be bound by the federal law is not always clear.

Although these legal remedies do provide some protection against blatant violations of privacy and other rights, the increasing use of drug tests will keep alive the need for new laws to resolve conflicts arising from drug-testing programs. Whether the courts will continue to strike that delicate “balance” between the constitutional rights of employees and legitimate business interests, however, remains to be seen.

That would not have been much of a question ten years ago. But today’s national mood is what has made so popular the race of some politicians to call for extremely severe measures (for a free society) in the “War on Drugs.” The same mood may someday persuade judges to be more intolerant of drugs in the workplace than considerate of the individual’s right to be left alone in a society where privacy is rapidly becoming a scarcity. ●

Steven R. Rhoads is a San Francisco lawyer whose practice includes employment law.

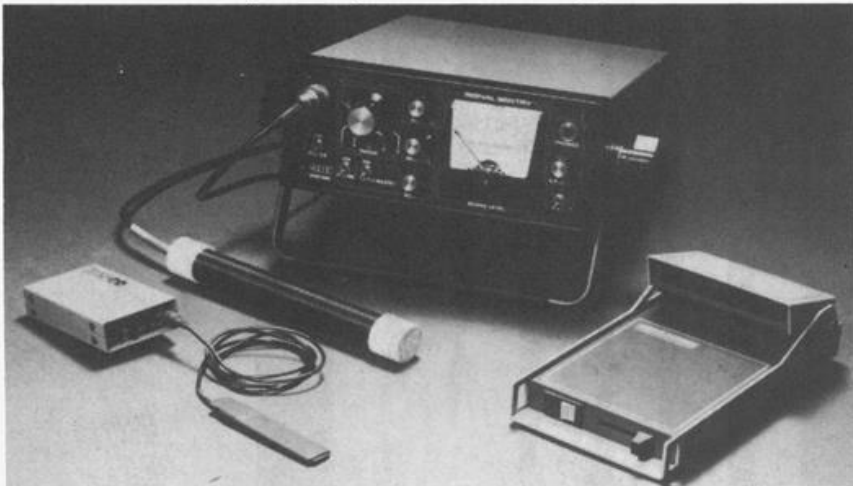
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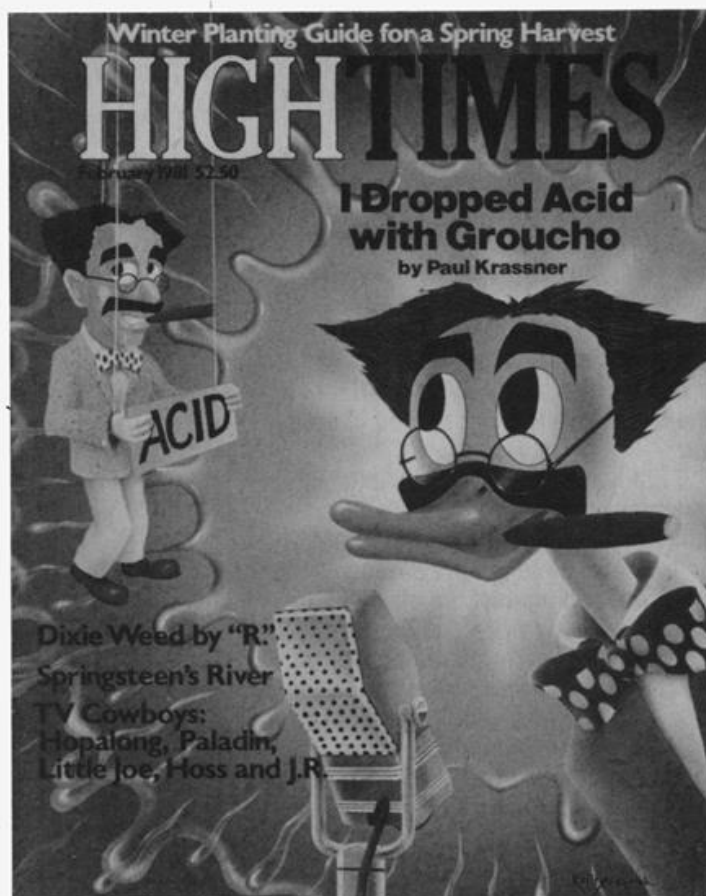
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continued from page 68

Dear Ed,

I've attempted to grow pot in the past, but with little success. This year I am happy to announce I'm growing my first real crop with real success. I've noticed that when you're an amateur people have all kinds of advice to give you on the finer points of marijuana cultivation.

One guy told me he always keeps one male (separated from the females) because the females need their male counterpart's energy (or some such nonsense). Well, I tried this and all it did was pollinate most of my females.

Then another chump told me to clip off all the shade growth to double my production. Well, I got lots of buds, but they were very small.

We've been having very shitty weather throughout Sonoma County. Does this cloudy, rainy weather or the clipping of the leaves—or both—have something to do with my buds being so small?

—Y.

Russian River, California

There are four possible reasons why your plants' buds were small. You mentioned the first three. Once the flowers are pollinated, the plant uses more of its energy producing seeds than making more flowers. The "sun leaves" are net producers of sugars, the building blocks for all plant growth. When the sugars are removed, the plant has less material to draw upon, and small buds result. To realize its growth potential a plant must receive enough light energy to produce sugars. Cloudy weather limits the energy the plant gets.

The genetic structure of the plant is another factor. Each plant has its particular growth pattern. Just as different varieties of tomatoes produce differently sized, flavored, and shaped fruit and have different total yields, marijuana plants vary considerably. Two varieties of cannabis grown under the same conditions will produce different yields.

Dear Ed,

Many outdoor growers have complained about wildlife consuming their valuable crops. I'd like to offer this suggestion to them as it works on a large scale or small plot equally well.

Get several dozen eggs, break them, and mix with enough water to be sprayed by hand sprayer or with large equipment. A dozen eggs to each 5-8 gallons of water works best for us. Then broadcast spray entirely around the crop to be protected. It

continued over

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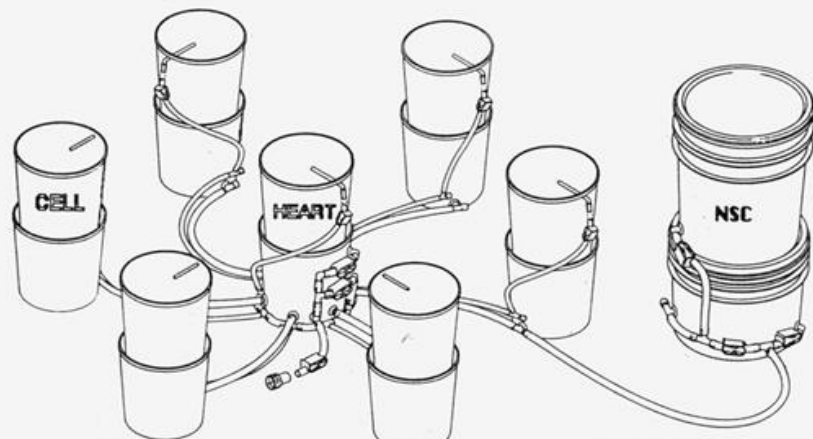
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A S K E D

continued from previous page

repels deer, rabbits, skunks and even neighbors' cattle. One spraying generally hold them at bay for the season. But it is so cheap and effective so multiple sprayings can be used without environmental damage.

—*Bluegrass Grower*
Southern Kentucky

Dear Ed,

Over the last few seasons I have lost a large percentage of my plants to termites. They gnaw through the plants' stems just below ground level and the plants go brown and fall over. The age of the plant makes no difference, as I have plants ranging from 6-week-old seedlings to females in full flower.

There are a few large termite mounds nearby, but I'd rather not disturb them. The plants grow in individual holes 2 feet deep and 2 feet in diameter. I have used carbaryl solutions watered into the soil, with varied results, but reinfestation still occurs.

—*Save Our Sinne*
L.W.

New South Wales,
Australia

Dear Ed,

For the past two growing seasons I have had problems with ants and termites. They tunnel into the plant's main stem and up the base of the stalk. The plants usually make it but loses vigor and the buds don't fill out. There is no sure way of telling whether a plant is attacked until it is too late, usually harvest time.

What can I do?

—*J.G.*
Georgia

Dear Ed,

This is for those people fighting termites. There was a tip in the June issue that root damage from transplanting may be the cause. It may be, but termites have been known to take out whole crops not transplanted.

We have found that old dead roots from other trees attracts them. So does fresh cow manure.

Our solution to the problem is simple. Mix a moderate amount of cedar pine chips into the planting mix or throughout the planting bed. Termites can't stand cedar pine and will avoid it. It has worked for us for over 10 years.

This tip comes to you from the growers of northern Florida.

—*A Skunk Grower*
Missouri

A truly elegant solution. Thanks for the tip.

Dear Ed,

Do you know a way to keep my cats from grazing my plants?

—Doug

Northeast Colorado

Keep them out of the garden.

Dear Ed,

I have read that high pressure sodium (HPS) lights can be harmful to your eyes. With this in mind, I wear polarized sunglasses while working on my garden. Is this sufficient protection? Can the light that gets in over my sunglasses when I bend over, etc. still harm my eyes? Is the light that is reflected off walls also potentially harmful to my eyes?

—C.D.

Houston, Texas

Because of their concentration of light at short distances, the light from HPS and metal halide (MH) lamps is of concern for two reasons. First, the brightness of the light may hurt your eyes in the same way that looking at the sun does. Secondly, ultraviolet light, which has been shown to be harmful to the eyes, is emitted in moderate quantities relative to the amount emitted in total. For best protection, wear industrial UV goggles. UV sunglasses probably provide adequate protection for short trips into the garden.

Kyle, from Southern California, suggests "An effective and inexpensive eye protection to protect from metal halides' intense UV output are those little tanning sunglasses they sell at indoor tan parlors for about \$3-\$4."

Another solution is to illuminate the garden using fluorescent or incandescent lamps while working in it.

Dear Ed,

Aside from testing the pH of the soil, what other tests should I run before I grow?

—Jim

Shrewsbury, Massachusetts

Before adding any fertilizer to your outdoor garden check the amounts of nitrogen, (N) phosphorous (P), and potassium (K). You might also check for micronutrients. Many state or university agricultural extension services perform the tests for a nominal fee. If they do not, they can advise you of a commercial service.

Although the tests are usually accurate, their recommendations usually suggest a lot more fertilizer than is really needed. Check several gardening books to get an idea of what and how much to add.

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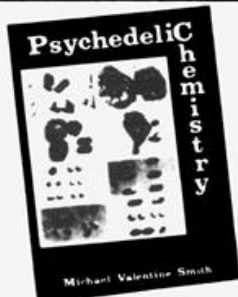
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A S K E D

continued from previous page

Dear Ed,

Fish lover ("Ask Ed," November '86) recommended buying pH chemicals at an aquarium store to save money. To really save money I paid about \$9 for 1 liter of concentrated phosphoric acid (to reduce pH) at my favorite chemical supply house.

—Kyle

Southern California

Thanks for the tip.

Dear Ed,

This is the first time I have used a metal halide (MH) lamp. It is a MS 1000 and is very hot. The growing room reaches temperatures of around 120 degrees F. Too hot! What temperature is optimal for the plants? The room is 5' x 5' with a hook-up for a washer and dryer, an air conditioner closet, and dryer vent hookup. One of my friends recommended that I simply run a vent hose from my air conditioner closet to the room. My only problem with this is that it might affect my CO₂ system. I've even built a small evaporative cooler but it just doesn't cut it. Any suggestions?

—The Texas Weatherman

Lubbock, Texas

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The ideal temperature for growing differs for varieties. Most *Indicas* and *Indica-sativa* hybrids do well when the on-cycle temperature is maintained between 70 and 80 degrees F. Photosynthesis and metabolism taper off below 68 and above 85 degrees F. The off cycle temperature is 55-65 degrees F. Temperatures below 45 degrees F cause temporary damage to the plants and hinder growth. Higher nighttime temperatures may promote loose buds and running.

Equatorial *sativas* and *Thais* may respond better to different temperature regimens that the one used for *Indicas*. Both groups may grow better at high temperatures, 75-90 degrees F. In their native lands high altitude varieties experience a precipitous drop of 15-30 degrees F or more each evening. Low altitude varieties experience a much smaller drop. (Some growers think that the keys to successfully budding these varieties indoors lies in a change of water conditions and the temperature regimen as well as very bright conditions.)

If you are using a remote ballast, remove it from the growing area since it generates quite a bit of heat.

Venting in cool air as your friend suggested is a good idea. Another solution might be to vent the hot air out of the dryer hookup.

How about using an air conditioner to remove both heat and moisture?

Dear Ed,

After growing for many years experience has brought me to this point—

I need the short flowering season of the *indica* variety, but want the more ethereal "sweet" high of the *sativa*.

The answer obviously: cross pollination. The question: do I pollinate a female *sativa* with a male *indica* or vice-versa to get the desired characteristics?

—"Big D"

U.S.A.

Each of the parents contributes 50% of the seed's genetic material. It does not matter which parent contributes the material. By the way, the aroma and the quality of the high seem to be dominated by *indicas* on first crosses. It usually takes several generations of backcrosses with *sativas* to develop the taste and high you desire while retaining the fast maturity and compactness of the *indica* plant.

Dear Ed,

My growing area is 4' x 12' with a height at one end of 4 1/2' and 7 1/2' at the other end. Will a light track work on an incline? If not, would it be best to use two 400-watt MH, or is there a reflector for a 1000 watt lamp that will cover effectively?

—"Virginia Slims"

Virginia

Because of the height of the lights, there would not be much room left at the shallow end of your room once they were installed. A horizontally mounted lamp would save several inches of space. Instead, I would suggest that you illuminate the shallow end of the room with 4-foot fluorescents mounted on the ceiling. The plants can be boosted up to the lights when they are small. Use 2 to 3 fluorescents for each foot-width of space. For a 4 foot wide room use a minimum of 8 standard tubes or 4 VHO fluorescents. This leaves 8 feet of space which can be illuminated using two 400-watt HPS lamps or a single 1000-watt lamp. A light track would help if a single lamp were used.

● I welcome comments, tips and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, **Marijuana Growers Handbook, Indoor/Greenhouse Edition**.

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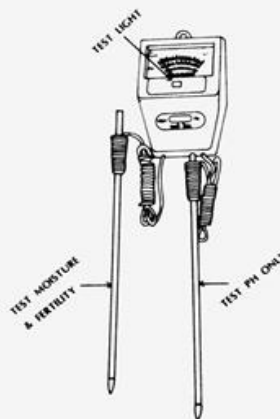
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DOWN W/M, 6'2, 195 LBS., 24, brown hair, hazel eyes, muscular body. Need to hear from all you lovely ladies, bros. welcome also. All letters will be answered. Picture gets picture. Joe Podilla, Rt 1, Box 403, Mocksville, NC 27028.

I'M A 24 YEAR OLD W/M, 5'8, 145 lbs., with brown hair, blue eyes, and a Taurus! I'm looking for a warm, sincere person who I can share my lonely hours with. Richard Diehun, Rt. 1, Box 1077, Brazoria, TX 77422.

I'M A 43 YEAR OLD WELL- built Welchman. I'm a powerlifter and a body builder in the off seasons. I'm into good health, mountains, log cabins, animals, horses, old hot rods, and Harley Davidsons. I'm seeking correspondence, visits, and hopefully Mrs. Right. All letters answered. Ron Hayward, C-18440, C.M.C., PO Box 8101-3392, San Luis Obispo, CA 93409.

I'M 33 YEARS OLD, 5'7, BLUE eyes, brown hair. I have 3 1/2 years to do. I'm looking for some lady to write to in the hopes of getting a relationship going. No one seems to love me. So write, ladies. I'll answer all letters. Donald J. Masino #65244, CN-861, Trenton, NJ 08625.

SCORPIO, BIRTH 11/06/59, 175 lbs., 5'9. I was born in Columbus, Ohio. My hobbies are basketball, football, tennis, cooking, dancing. I'm seeking penpals to correspond with; race and religion don't matter. Will answer all letters. Carl Tucker, PO Box 57, #175996, Marion, OH 43302.

I'M HERE AT CMC EAST IN California. Young male, 30, 5'7, blue and blonde. Looking for some ladies who can find the time to write a lonely white male!! Jerold Adams B-91390, CMC East, Box 3195, PO Box 8101, San Luis Obispo, CA 93409.

VERY LONELY W/M LOOKING for someone to write to. That would really make things seem easier in here. 30 years old, 5'8, 150 lbs. Will answer all letters. Glenn Long, C-65586 Room 3119, PO Box 8101, San Luis Obispo, CA 93409.

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CASE IN POINT

THERE'S AN INVESTIGATOR AT MY DOOR! WHAT ARE MY RIGHTS?

Adapted from an article by
The National Lawyers Guild

The Government investigator (FBI, ATF, IRS, etc.) very often "visits" people in their homes and/or offices. That doesn't mean that person will be subpoenaed; it only means that somewhere that person's name "came up." They often "visit" people at times that the average person might consider inconvenient or embarrassing, and the agent(s) may suggest or even threaten that if you don't cooperate or refuse to talk to them that they will issue a subpoena and/or have one issued to force you to talk to them.

● **Example:** John Smith is sitting in his living room on a Sunday with his wife, mother-in-law, and his three kids. There is a knock on the door. His wife comes back to the room and says, "John, there are two agents from the FBI here to talk to you." Remember:

A. John is not a criminal. Neither are the parties he is being asked questions about, so calm down!

B. John is a free U.S. citizen. John has constitutional rights to be free and secure in his home and office. This also means John is guaranteed the right not to be harassed by his own government.

C. There is no way in the world for the agents to require John to talk with them. They do **not** have the power to subpoena people or have subpoenas issued.

● **The FBI (investigators) frequently visit potential subpoenaees (people who have not yet been subpoenaed**

and who may never be subpoenaed) to attempt to question them. At the time of such visits the Justice Department may or may not be planning to subpoena that individual, but the agents may threaten or imply that if the person refuses to talk to them a subpoena will be issued to force the person to talk. The FBI has no subpoena power, and any use of the grand jury to compel what the FBI cannot itself compel is, of course, an abuse of the grand jury process. Nevertheless, such use of the grand jury is frequently made, and such threats are not uncommon.

The National Lawyer's Guild suggests that you:

A. advise the agents that you wish to decline to meet with them.

B. get the agent's business card.

C. get the advice of a lawyer as soon as possible. I would add, be polite!

● **The best advice to give a client (the person who is being asked questions) who expects a visit from the FBI is an instruction to obtain the business card of the agent and advise the agent that the client declines to meet with the FBI in the absence of an attorney. Clients who follow this course of action are much less likely to be harassed by return visits and escalating demands for information than are those who follow a normal instinct to be polite and help in whatever way they are able. Among those actually**

subpoenaed to grand juries over the last ten years have been many who did initially cooperate with the FBI, sometimes permitting extensive searches of their homes and giving lengthy interviews. ●

● **But don't I have a duty to "cooperate" with the agents at my door?**

There is no duty whatsoever to answer questions propounded by investigators, and beginning to answer questions can result in escalating demands for information and the possibility of either a subpoena or prosecution for false statements or obstruction. If a person wishes to cooperate, he or she can do so much more safely with the assistance of an attorney.

● **Witnesses should be warned that even inadvertent contradictory statements, as well as deliberate falsehoods, may result in a criminal charge much more serious than a civil contempt adjudication. The agents write reports of their conversations from memory, not verbatim. The witness seldom even does that. Prospective or potential witnesses should be advised to resist the temptation to engage in conversation with investigators in the hope of learning something, "out-smarting" them, or throwing them off the track.** ●

Cooperate is a **bad word** to describe what you'd be doing by voluntarily answering questions asked by the investigators prior to getting legal advice. You have various constitutional rights. However, these rights must be affirmatively asserted or they are lost forever. If you are not under subpoena and an agent asks to talk to you ("cooperate" with them), you have an absolute **right** to say "No, I want to talk to my attorney" or "I wish to get an attorney." You are under no "duty" to talk to the investigator.

● **Does my attorney know everything? Should I follow whatever suggestions are made to me?**

Attorneys can only advise you as to the law and how it may impact on your particular circumstances. But remember, **ask** your attorney why a certain course of

continued on page 89

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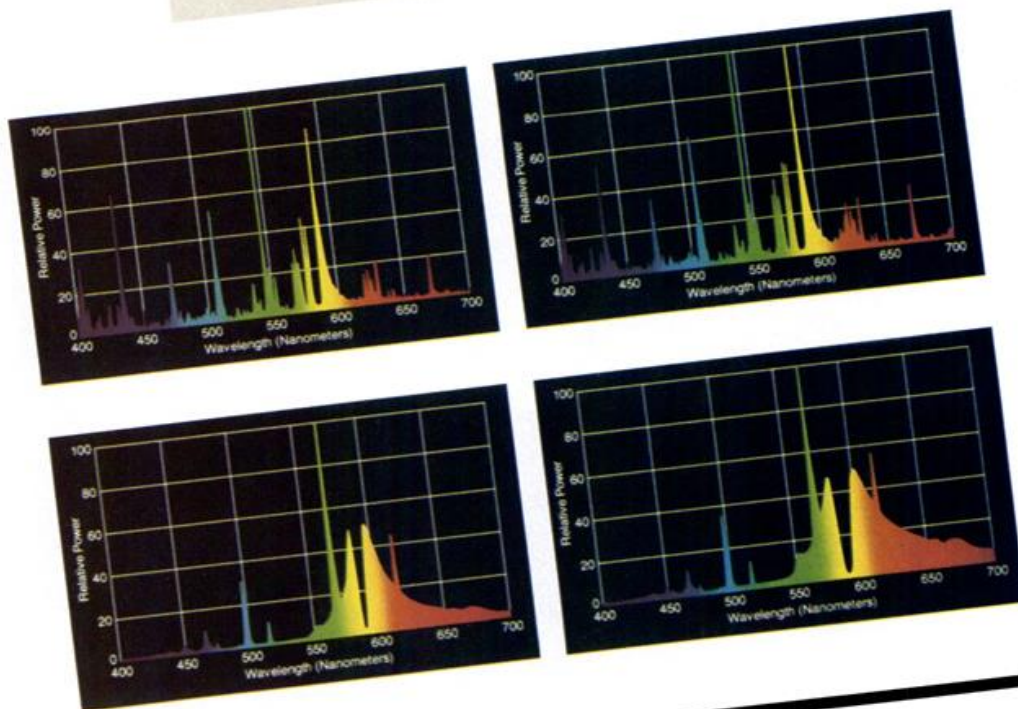
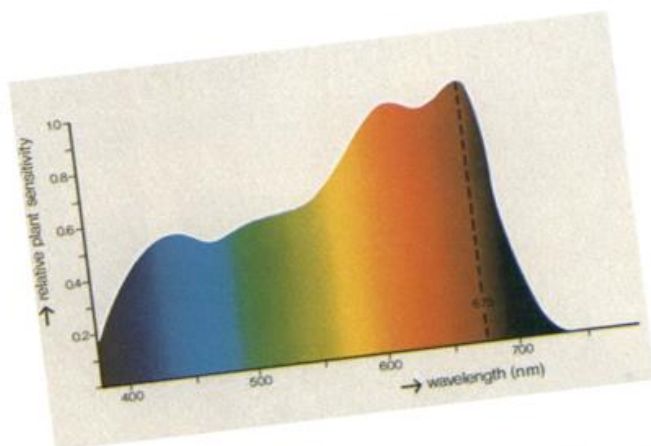
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HIGH FIVES

JOHN LELAND

1. The bad news is that our government secretly dealt arms to Iran in exchange for hostages while publicly urging the world to take a hard stand on terrorism, and then attempted—illegally—to siphon the money off to the contras. And that, as of this writing, all of the money from both transactions remains unaccounted for. The good news is that we can all celebrate, each in his or her own style, the end of the Age of Reagan.

The New Right issues will remain; we'll still see antidrug hysteria, antiabortion proclamations, and the continuing campaign against the Bill of Rights (they wanted to take away Oliver North's Fifth Amendment privileges, fer cryin' out loud). But no longer will the Reaganites be able to exert themselves with the authority of moral force. This ought to be a great blow for pop culture, which has for the past half-decade been largely reduced to covering its ass. Check out **Family Ties**, **Indiana Jones Part 15**, or Madonna's supposedly radical "Papa Don't Preach." Even money says this era and its oppressive emotional caution are over, and we're at the start of a new, more lively one.

Before we close the book, however, it's worth giving the Reagan years their due. If nothing else, this was a time of kick-ass reissues. The new stuff may suck, but you can find more good old stuff than ever. And little of that good old stuff is better than **WYNONIE HARRIS**.

One of the first blues shouters, Wynonie wore painted silk ties, laid a lot of women, and after WWII helped usher in rhythm and blues out of swing. He recorded for Lucky Millinder's orchestra and under his own name, and if he cut a bad tune, I haven't heard it. Casual searching ought to turn up **OH BABE!** (Route 66), **MR. BLUES IS COMING TO TOWN** (Route 66), **GOOD ROCKIN' BLUES** (Gusto), **ROCK**



MR. BLUES (Charlie import), and who knows what else. There's about 75 songs here, less than a couple of duplicates, and all are about sex or alcohol or both.

You should take good advice when it comes along; but if it comes from Wynonie Harris, question it. The man had his troubles, as he testified in "Man, Have I Got Troubles." Or on "Good Morning Judge": "I didn't know her pop was a city cop / And she was just 16 / Good morning judge." But he also knew good times, and knew how to sing about them. Hold your favorite Prince song or porno mag up against "I Like My Baby's Pudding" or "My Baby's Barrel House" (many a man's fantasy in lyrics) and watch it wilt.

No kidding, there's just a whole lot of great ribald shit here, and if you miss it now, you have no one but your dumbass self to blame.

2. Toward the end of **RICHARD KERN**'s 20-minute Super-8 **Fingered** (on video from *Deathtrip*), telephone-sex kitten **LYDIA LUNCH** and her violent beau beat the shit out of teen hitchhiker Lung Leg, and it looks disturbingly authentic. According to Kern, that's cuz it was. **Fingered** is a sleazy, scary action pic of questionable taste and political content, but undeniable impact. Kern wants to make you uncomfortable; I think maybe he's a pig, but I can't help being stimulated by his films.

3. Sengalese popster **YOUSSOU N'DOUR** sang on Paul Simon's **GRACELAND** and Peter Gabriel's **SO**, two of the guarded triumphs of last year, and now has his own **NELSON MANDELA** out there on Polygram. They call

his piercing vocal acrobatics MBALAX, and root them in the Islamic call to prayer, but I just like the way his band gets on the one. Chances are that unless you speak Wolof, that's what moves you too.

4. After **D. Boon** of the **Minutemen** died in a car accident in December 1985, his friend and bandmate **Mike Watt** was disconsolate. Then this big fan named **Ed** from Ohio started calling him and buggin' him to play again, and despite Watt's polite discouragement, drove all the way out to San Pedro to jam. Ed had been playing guitar for a couple of months, and was just this lovable dork who liked bad music like U2, so everything was cool as a zucchini. He joined Watt and Minutemen drummer **George Hurley**, and they formed **FIREHOSE**, a band with a lot of capital letters, a fragmented sound quite like the Minutemen's, and an album called **RAGIN' FULL ON** (SST). It's alright and then some, and if your friends like good music it makes a good present.

5. **BAD BRAINS, I AGAINST I** (SST). They were great, they sucked, and now they've turned every new metal gesture inside out and looked at it with an outsider's eye, as only a black, rasta-worshipping, punk reggae band can do. Or maybe a Hassidic lesbian surf combo could do it, but it wouldn't be the same.

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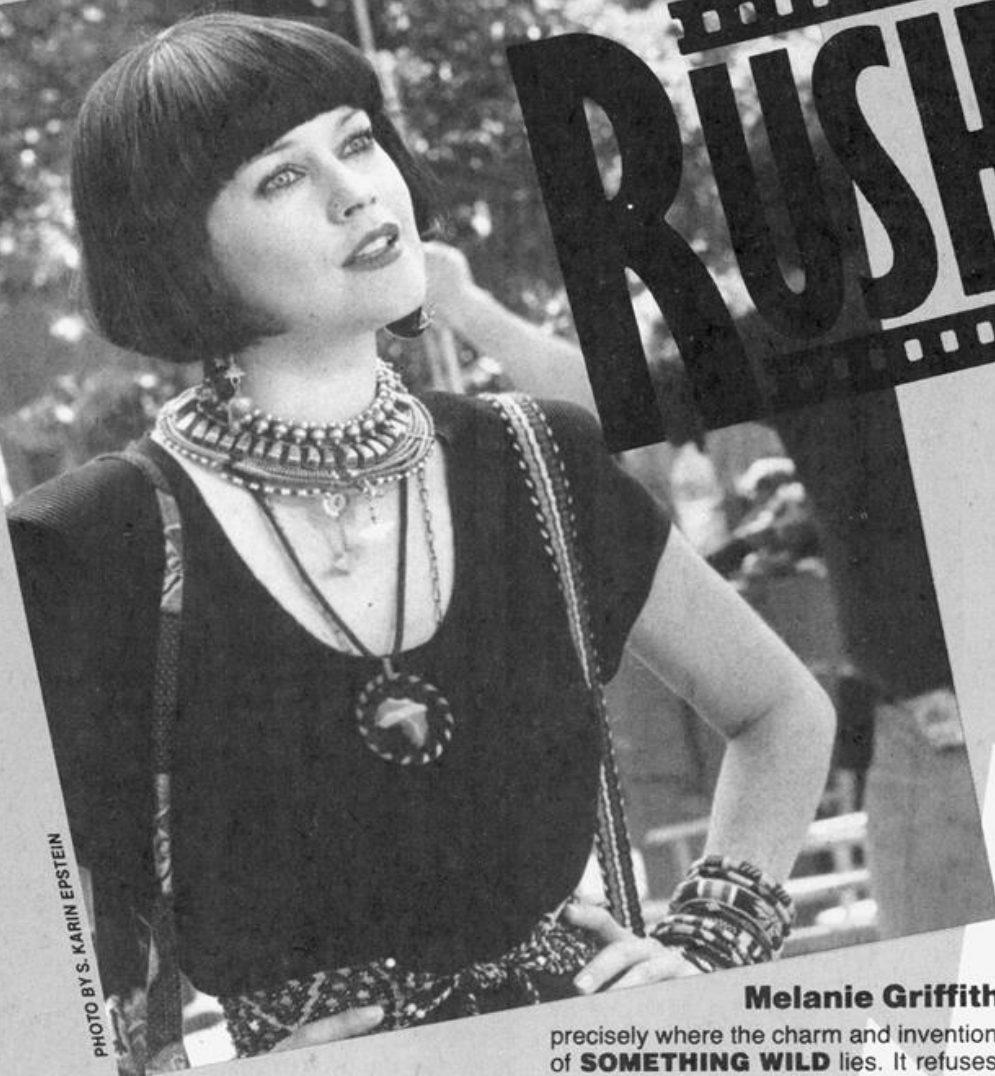


PHOTO BY S. KARIN EPSTEIN

Melanie Griffith

SOMETHING WILD

Without really trying, **SOMETHING WILD** is the first really free movie of the '80s. A rebellious, almost anarchic sexual comedy that shakes the audience by the ankles to wake them up, it reminds us what most movies have been missing for years. And nobody saw it. By the time word-of-mouth got around, it had disappeared—which makes it prime for a video release success. Melanie Griffith plays a dream date—an adventurous tart who flushes the yuppie out of a New York businessman in a matter of minutes. Her only reason for being is to prove to a dull new generation that there's something to live for if you're willing to take a chance. Money, responsibility, and job security have rarely been made to look so immaterial next to the whims of this girl who robs liquor stores, consorts with psycho ex-cons, carries a gun (unregistered, most likely), rapes her new guy after handcuffing him to a bed in a New Jersey motel room, and calls herself Lulu (that's not her name—lying turns her on). Some girl. More than a few complained that its plot was an unsettling mixture of ideas—what starts as a screwball comedy climaxes like a horror film—but that's

precisely where the charm and invention of **SOMETHING WILD** lies. It refuses to hold on to a conventional narrative because the emotions change as rapidly as they do in life. After all, who knows when you wake up in the morning whether you're going to find money, get screwed, or get murdered. That's what it plays with—the unpredictability of living out a full day. Director Jonathan Demme has made some good movies (**CAGED HEAT**, **CITIZEN'S BAND**) and some bad ones (**LAST EMBRACE**, **SWING SHIFT**) but he's never been a slouch at giving audiences what they least expect. That even goes for his bad movies—they're never wrong-headed for the reasons you might expect. But like everything Demme's ever done, you need to persuade someone to see it. (Has anyone ever seen **CAGED HEAT** without someone else telling them they should?) **SOMETHING WILD** carries a freshness that came out of the blue and that's just the way to see it—cold—before someone tells you too much.

MANSON (United)

He toyed with the idea of putting cigarettes out on Elizabeth Taylor's face to bring out her real beauty. He wondered what his future as a singer would be. He

settled for overseeing the mutilation of another movie star, cutting out her unborn fetus. He was a real charmer, and when the news broke of the notorious Tate/LaBianca murders his followers grew in number. One of his "family" members delights in relating the story of how she had sex with a man who fulfilled his promise to commit suicide during orgasm. She drank the blood spilling out of his mouth. Babies born on Manson's ranch were given drugs and participated in orgies. This is the real thing. For another good dramatization of Manson's trial there's **HELTER SKELTER** (Key Video), a made-for-television feature condensed to almost half its running time for video release, but still worth a look for those who are interested.

INSIGNIFICANCE (Karl/Lorimar)

Oddly enough, this comedy about a proposed meeting between Marilyn Monroe and Albert Einstein would make a perfect companion to **THE QUIET EARTH**. More here about the universe, the apocalypse, and the nature of things. When the Monroe character explains the Theory of Relativity it makes sense for the first time. Bitter and funny. For very specialized moods.

THE QUIET EARTH (CBS Fox)

A scientist's haphazard experiments alter the shape of the universe, wiping out civilization save for himself and the last two stereotypes on Earth—a black activist and a feminist. Lots of end-of-the-world bickering about who's sleeping with whom and slavery, but after the story turns to dust along with two of the three survivors, there's a nice touch of sadness and irony at the finish that saves the movie.

DOG EAT DOG (Sinister Cinema)

Rare garbage about a gangster and a tramp, stolen money, and greed. Seamy trash. Jayne Mansfield stars and it's virtually unheard of. From the director of **SEX KITTENS GO TO COLLEGE**.

PSYCHOTRONIC

Michael J. Weldon

Maybe we should forgive old **Dino De Laurentiis** for his **Kong** movies, now that his North Carolina-based D.E.G. studio is backing and releasing new features by **David Cronenberg** and **David Lynch**. After last year's hits, **The Fly** and **Blue Velvet**, hopes are high for Cronenberg's **Twins** and Lynch's **Ronnie Rocket**.

I could care less about **Creepshow II**, **Demons II**, **Nightmare on Elm St. III**, and **Friday the 13th Whatever**, but horror novelist **Clive Barker** is directing his own **Hellraiser** and that could be something special and disgusting.

On the science fiction horizon, George Romero is remaking **War of the Worlds**, Spielberg is doing **Empire of the Sun** (which many J. G. Ballard fans are dreading), and he's producing Joe Dante's **Innerspace**. **Robocop** is by the Dutch Paul (The 4th Man) Verhoeven. His last movie, **Flesh and Blood**, didn't make it to theaters at all, but it's a recommended tape, sort of like a very dark, serious version of **Monty Python and The Holy Grail**. Susan (Desperately Seeking) Seidman's **Making Mr. Right**, with Ann Magnuson of the Lower East Side's **Club SZ** fame, sounds like a sure bet.

Witchcraft and **voodoo** are big topics this year. Jack Nicholson stars in George (Road Warrior) Miller's **The Witches of Eastwick**, Robert DeNiro and Mickey Rourke are in Alan (The Wall) Parson's **Angel Heart**, and Martin Sheen stars in **True Believers** by John (Midnight Cowboy) Schlesinger.

Viet Nam is being refought in a more realistic way than in Stallone/Norris action cartoons, in Francis Ford Coppola's **Gardens of Stone** and Stanley Kubrick's **Full Metal Jacket** (his first since **The Shining**).

After the ultimate coke/crime movie **Scarface**, I'm looking forward to Brian De Palma's version of **The Untouchables**, with DeNiro as Al Capone!

Paul Schrader's first directing project since **Cat People** is **The Light of Day**, about a bar band in my favorite home town, Cleveland.

The Last Emperor, filmed in China by Bernardo Bertolucci, is his first historical epic since 1900 and promises to be a lot better than '87's tv mini-event of the year, **America**.

The bizarre combo project of the year is **The Pick Up Artist**, produced by Warren Beatty, directed by James (Fingers) Toback, and starring cover girl Molly Ringwald. If that's not strange enough, Dennis Hopper is set to direct **Colors**, his first since **Out of the Blue** back in 1980, when our senile president was sworn in. Did we find out if the CIA director had a lobotomy yet?

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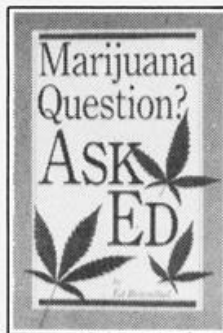
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conduct may be recommended. Ask what the impact of that conduct would be and be sure to ask what your rights and alternatives are.

Do not be intimidated by your attorney. Keep in mind, he or she is working for you—it's not the other way around.

● If there is an agent at my door with a subpoena for me, what are my rights?

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● Should I keep notes about any and all contact I've had with investigators?

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B. If the witness was asked about other people, does he or she remember the names? Were photos displayed? The witness should describe the photos as fully as possible in terms of identification (if any), number, and format (i.e., single photographs, mug shots, surveillance photographs, "wanted" posters).

C. Did the investigators state the subject matter of the investigation and/or the reason you were contacted? What information did they have about anyone including you, and where were they most likely to have obtained that information?

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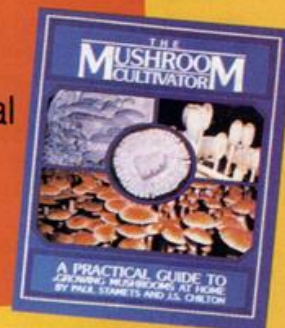
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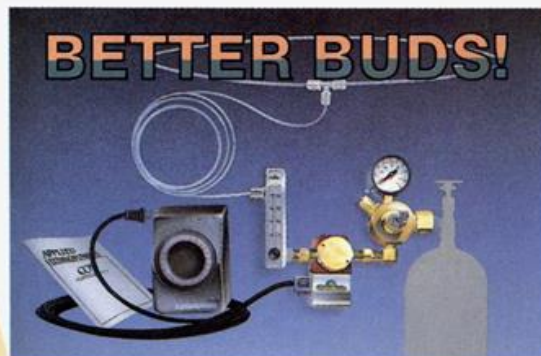
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NORML-IZER

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items to children—whether it be tobacco, illegal drug taking, or gambling. I also think it is wrong to inflame people's lust to sell merchandise.

But most paraphernalia legislation goes far beyond these measures, actually restraining First Amendment rights of free speech and expression, and encouraging a climate of hypocrisy. My approval stops when regulation becomes cultural harassment.

Our opponents have actually handed us a great opportunity. We have reached a point in our social history when it is finally possible to attain parity between marijuana and the legal drugs, alcohol and tobacco. Consider this:

Society now says, in effect, if you are going to sell paraphernalia for marijuana use you have to sell it on the same footing as that which is sold for tobacco use. There are social rules for the marketing of tobacco, alcohol, and their attendant paraphernalia; they must be followed with marijuana as well.

Society disapproves of the advertising of drugs or drug-related activity which encourages kids to copy adult drug taking. The constructive parts of anti-paraphernalia laws are those which make merchants follow the same rules and customs for marketing marijuana

paraphernalia that the alcohol and tobacco merchants must follow: not in front of the children.

Society has determined not to depict drug use in public. People rarely are portrayed smoking tobacco on television. People are not seen actually drinking beer in commercials. The rule is that drug use itself can't be used as a marketing tool. So beer commercials focus on taste, image, calories—but not how their product provides a better high than another brand.

Society has also raised the drinking age to 21 to cut down the flow of alcohol to teenagers, and is considering further restriction on tobacco advertising. Once again, the guiding philosophy is "not in front of the children."

There is a pattern here that we best respect. Though hampered by extremism, this concern about how adult-oriented markets influence children opens an opportunity for us to prove that we have learned a little more responsibility about conducting our affairs.

Excessive regulation and harassment is counterproductive because it merely makes the paraphernalia a forbidden fruit, making it "cool" for a teenager to get his or her hands on the banned items. It also means that paraphernalia is much more profitable for the merchant; for some of the industry barons of the '70s, this last decade of regulations has been very enriching.

Furthermore, to seriously influence drug abuse, you have to reach the drug user. Attaching health information to illicit drug paraphernalia would be an effective way, but this violates the rule that we all have to pretend that it's not drug paraphernalia.

NORML came up against this obstacle in an early challenge to a state-wide paraphernalia law in Virginia. **NORML** was told by a court that our First Amendment rights to distribute literature, and presumably drug education literature, were valid but superseded by the seriousness of the drug problem. Consequently, we have the surreal situation where, because society wants to fight drug abuse by banning paraphernalia, we can't distribute antidrug abuse information in paraphernalia shops!

We should advocate that our communities accept the notion of parity between marijuana, alcohol, and tobacco as potentially harmful substances that responsible adults, like it or not, indulge in. Clear statements need to be made that there are some things that adults do that children and teenagers should not do.

I think it is time for marijuana consumers, the merchants of tobacco accessories, parents' groups, and antidrug crusaders to put aside our differences and work together on the issue on which we all seem to agree—keeping drugs out of the hands of kids. ●

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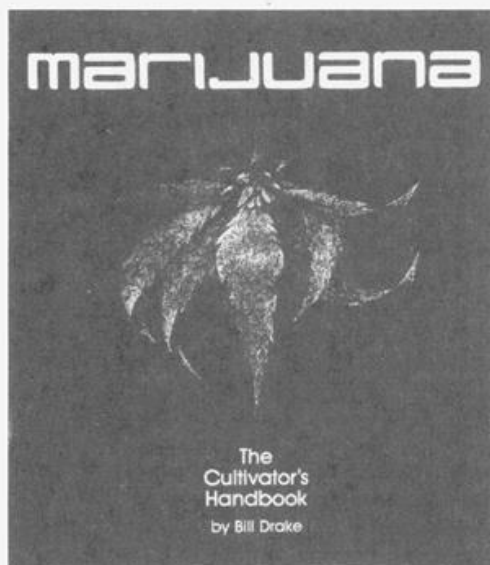
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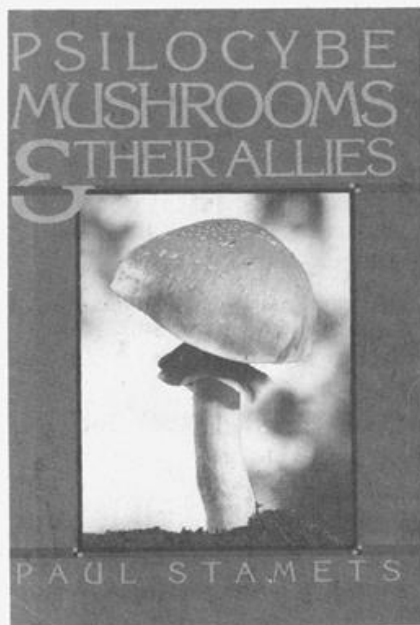
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MELANIN

continued from page 66

based on classic criminal fraud. Trouble is, the *immediate* victims of the fraud aren't the people losing their jobs, they're just the *secondary* victims of it. The immediate victims are the employers, those ultrarighteous Fortune 500 outfits like IBM and Merrill Lynch and so on. They swallow all this snake oil from these corporate drug-test consultants, and start up these beautifully fascist but *legal* employee-surveillance programs, in the guise of combating "Drug Abuse in the Workplace." And the consultants know perfectly well, but do not bother to advise these big smart corporate giants *beforehand*, that these machines, bottom line, really *don't work*. And that in order to make any piss program appear to work, just as a brute-force "deterrent," you've got to have guards stationed to *watch*

● Employers are going to have to just declare "victory" in the War on Drugs and stop testing. ●

those people piss, men and women, up real *close*, to keep them from substituting or salting their sample. But if the employer does *that*, then he gets sued for committing a statutory outrage against public decency and personal privacy that in *no way* can be justified as a legally-permissible tactic in the "War on Drugs." So they're *fucked*! Inevitably, no matter what, every single one of these swindled employers is gonna have to just declare vic-

tory in the "War on Drugs," and stop testing.

Q. Well, why don't they sue the consultants?

A. The only thing that could keep these swindled employers from suing those lying consultants for criminal fraud in civil court is hypocrisy. These employers all adopted the posture of absolute drug-fearing righteousness when they started piss-testing their employees, as just a filthy little control gimmick. Now when

they realize they have to move to *stop* testing—like Pete Ueberroth of Major League Baseball already says he intends to, by the 1988 season—then they can't very well *also* sic their lawyers on these piss-test consultants, who are just *permanently* wrapped in the mantle of drug-fearing righteousness. You can't stop your corporate piss program and *also* sue somebody like Peter Almighty Bensinger at the same time, not if you're a big muck-a-muck Fortune 500 Republican. The drug-fearing public would think you had gone Communist overnight.

Yeah, the fix is in good on this racket. It operates sort of like blackmail, this self-perpetuating hypocrisy that obstructs justice from being visited rightfully on these criminal corporate con artists. Any time you've got a situation like that, and it just goes on and on, uncorrected for years, the Mafia somehow *always* finds a way to muscle in on it, and make a buck off it. ●



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Aldous Huxley, Tits and Grass, Dali Lama Interview, Portrait of the Artist as a Young Dope Smuggler

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My Dad Wilhelm Reich vs. the UFOs, Dope Dealers' Hall of Fame, Spring Planting Guide, Spaced: Star Trek Centerfold

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How We Got Our Dope Laws, The Ten Best Smuggling Planes, How I Invented LSD by Albert Hofmann, Sinsemilla Supersmoke

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THE HIGH TIMES TOP 80

THIS MONTH	LAST MONTH	THIS MONTH	LAST MONTH	THIS MONTH	LAST MONTH
1. EQUIDEMIUS (13) THIS STRANGE GUY IN LA. SENT IN		21. PLATOON		41. RETIRING AT 25 (FUCK PENSIONS)	61. FEEDBACK WHEN MY AMP IS TURNED UP TO TEN
2. RUSS MEYER FILMS ENOUGH VOTES (IN SINGLE ENVELOPES)		22. BEER (24) (ESP. ST. PAULI GIRL, CORONA, + BUD		42. ECSTASY	62. TEXAS STATE FAIR
3. HARLEYS (5) TO COP THE TOP THREE VOTES!		23. METALLICA		43. ACID ART	63. JESUS CHRIST 
4. SEX (+MORE SEX) (2) SO DON'T YELL AT ME!		24. SEX WHILE TRIPPING		44. THE CLEVELAND INDIANS (HIGH TIMES' 1987 PENNANT PICK!)	64. ORBITING PLUTO 
5. THE GREATFUL DEAD (3) JUST MAIL MORE VOTES IN!		25. AC/DC		45. OUTLAW BIKER MAGAZINE	65. A REFRIGERATOR FULL OF GOOD STUFF
6. THE DOORS		26. HOFSTRA PARTY UNIVERSITY		46. HOWARD STERN NEW YORK'S FUNNIEST RADIO GUY!	66. LAUGHING 
7. FRESH, GREEN, THICK, (6) STICKY, KICKASS, SKUNK BUDS WITH NO SEEDS		27. PEACE + LOVE		47. RONALD REAGAN (8) NOT AS POPULAR AS HE USED TO BE!	67. DOCTOR WHO
8. LED ZEPPELIN		28. THE WORD (THE BIBLE)		48. CHLOROFORM (WONDER DRUG OF THE 80S!)	68. GENETICALLY RECOMBINED DNA ALTERED BLUE BUDS (TWICE AS GOOD AS THE BEST ON EARTH, COURTESY OF YOUR LOCAL BIOCHEMIST)
9. MASSIVE, KILLER (10) BONG HITS (OR BONGERS)		29. SINSE		49. MADISON, WISCONSIN	69. LESBIAN SEX
10. GRASS, POT, REEFER, WEED, HERB, ETC.		30. IRON MAIDEN		50. Black Leather	70. THE BUTTHOLE SURFERS
11. HENDRIX (38) (HELLO TO HIS PAL ACE!)		31. HASHISH		51. LOTS OF GOOD MAIL	71. REAGAN GETTING CAUGHT IN THE IRAN ARMS DEAL
12. ORAL SEX		32. THE ANGRY SAMOANS		52. Headphones	72. BEER BONGS
13. L.S.D. (4)		33. LATE NIGHT WITH DAVID LETTERMAN		53. WATCHING PORN + GORE WHILE LISTENING TO THE MISFITS WHILE STONED OUT OF YOUR MIND!	73. Frank Zappa
14. DUMP REAGAN (1)		34. ROKY ERICSON		54. SICK JOKES	74. SEX WITH NANCY REAGAN
15. PIZZA WITH MUSHROOMS		35. FREEDOM		55. NOT HAVING TO CROSS VAN HALEN OFF THE TOP 40	75. Jah Rastafari
16. PINK FLOYD (9) (+ SYD BARRETT)		36. JANIS JOPLIN (THE PEARL)		56. UZI SUBMACHINE GUNS	76. NHL HOCKEY
17. 'SHROOMS (7)		37. 69		57. THE JUDGE WHO RULED AGAINST PISS-TESTING (GIVE THAT MAN A JOINT!)	77. POSSUM HUNTING IN TENNESSEE
18. KATHY COOK OF MORRISTOWN UNIVERSITY		38. Bob Marley + the Wailers		58. MY DOG BUDVAR	78. BLOW JOBS WHILE DRIVING
19. COCAINE		39. FARKING (FARTING WHILE FUCKING)		59. THE COLOR BLACK	79. BAN THE DOOBAGE SNIPERS (c/o DINA + FERN)
20. KEN KESEY AND HIS MERRY BAND OF PRANKSTERS		40. BILL MURRAY (CADDY SHACK)		60. SARDINES ON GRAHAM CRACKERS	80. NUCLEAR MISSILES FILLED WITH OATMEAL

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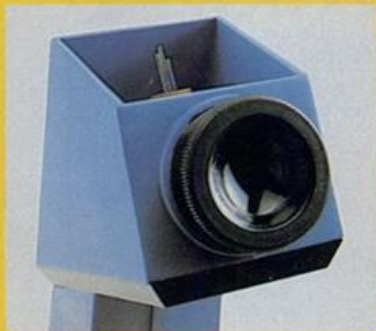
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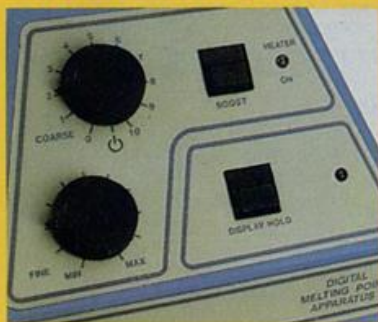
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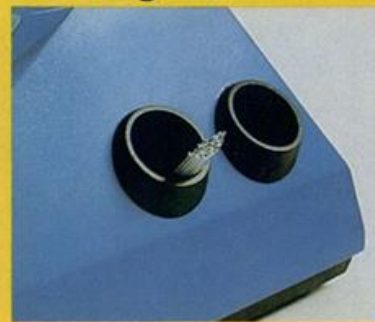
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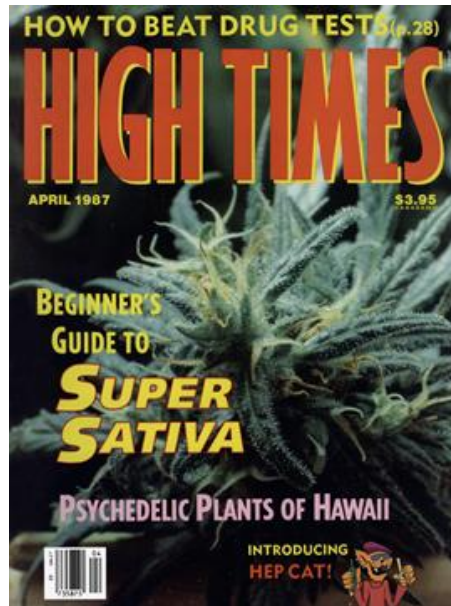
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